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[a] This includes BBA Reviews on Biomembranes, Vol. 1031.

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[a] This includes BBA Reviews on Biomembranes, Vol. 1031.

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Also in parentheses at the end of each group of key words will be found the name of the first author, the volume and the first page number of the article. The full published title and co-authors of an article can be found by consulting the relevant entry for the first author in the Author Index. To determine in which section an article has been published, the volume number indicated for an entry should be checked against the Publication Schedule, which can be found in the preliminaries and on the inside front cover of this Index.

Readers should note that American spelling is used throughout the Subject Index.

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The Editors and Publishers welcome any comments on the usefulness of this Index, together with suggestions for improvements.

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Poly(ethyleneglycol); Liposome; Surface potential; Electrophoresis; Fluorescence; Spectroscopy; ESR (Arnold, K. (1022) 303)

Erythrocyte; Membrane protein; Melittin; Hemolysis; Freeze-fracture (Hui, S.W. (1023) 335)

Amphotericin B; Sodium deoxycholate; Lauryl sucrose; Surfactant; Micelle (Tancrède, P. (1030) 289)

D-Glyceraldehyde-3-phosphate dehydrogenase; Guanidine denaturation; Dissociation; Unfolding; Inactivation (Liang, S.-J. (1038) 240)

D-Glyceraldehyde-3-phosphate dehydrogenase; Thermal denaturation; Dissociation; Inactivation (Lin, Y.-Z. (1038) 247)

GPIIb/IIIa; Calcium ion concentration, intracellular; Cytoskeleton; TXB_2; (Human platelet) (Yamaguchi, A. (1054) 8)

Aggregation state
Proton-translocating ATPase; ATPase; Membrane protein; Two-dimensional crystal; Acridine orange; Concanavalin A; Vanadate (Huang, L.-s. (1039) 241)

Aging
Mitochondrial function; Superoxide radical; Glutathione; Lipid peroxidation; Cardiac hypertrophy; (Senescent rat heart) (Muscari, C. (1015) 200)

Pyruvate transport; Lipid composition; Mitochondrion; (Rat-heart) (Paradies, G. (1016) 207)

1,25-Dihydroxyvitamin D-3 receptor; Duodenal receptor; Calcium ion absorption; Osteoporosis; (Rat duodenum) (Takamoto, S. (1034) 22)

Protein purification; Immunocytochemistry; Lobular zonation; Androgen action; (Rat liver) (Chatterjee, B. (1034) 162)

Erythrocyte; Biotinylated erythrocyte; Density fractionation; Percoll (Dale, G.L. (1036) 183)

Cartilage; Matrix protein (Melching, L.I. (1036) 213)

Thyroid hormone; Transport (Mooradian, A.D. (1054) 1)

Air/water interface
Substance P; Antagonist; Peptide area; p*K*; Surface activity (Seelig, A. (1030) 111)

A6 kidney cell
Cation channel, nonselective; Sodium; Potassium; Patch clamp (Hamilton, K.L. (1031) 16)

Alamethicin
Electric field; Polypeptide conformation; CD (Brumfeld, V. (1024) 49)

Melittin; Gramicidin S; Hemolysis; Liposome (Portlock, S.H. (1030) 1)

Alanine
Serine; Sodium ion dependent transport; Membrane vesicle; High protein diet; (Rat liver) (Bourdel, G. (1026) 1)

Dioxovalerate transaminase; Regulation; Heme synthesis (Mamet, R. (1034) 148)

Brown adipose tissue; Cold exposure; Starvation; Insulin; Noradrenaline; (Rat) (López-Soriano, F.J. (1036) 6)

L-Alanine
Amino acid transport; Kinetic constant; Sodium ion dependence; (Rabbit gastric gland) (Bravo, I. (1029) 98)

Alanine transport
Sodium ion cotransport; Membrane vesicle; Divalent cation inhibition; Magnesium; Calcium; (Rat liver) (Simmons, T.W. (1023) 462)

Albinism
Rhodopsin immunoassay; Opsin immunoassay; Photoreceptor; Retinal degeneration; *rds* gene; Mouse (Schalken, J.J. (1033) 103)

Albumin
Oxygen radical; Hydrogen peroxide; Pneumocyte; Surfactant; Surfactant replacement; Superoxide dismutase; Catalase (Matalon, S. (1035) 121)

Serum albumin; Genetic variant; Isoelectric focusing; HPLC; Amino acid sequence; (Human) (Minchiotti, L. (1039) 204)

FT-IR spectroscopy; Free fatty acid; Protein conformation; Exercise; (Human) (Le Gal, J.-M. (1041) 257)

PAF; Platelet; Lipid mediator (Clay, K.L. (1046) 309)

Alcohol
ESR; Spin label; Membrane fluidity; Phenol; Platelet aggregation; (Bovine platelet) (Kitagawa, S. (1027) 123)

Hexokinase; Ischemia; Alcohol withdrawal seizure (Laursen, S.E. (1034) 118)

***n*-Alcohol**
Lipid bilayer membrane; Erythrocyte membrane; Anesthesia; Choline transport (Devés, R. (1030) 32)

Phospholipid; Phospholipase A_2; Vesicular membrane; NMR (Kaszuba, M. (1030) 88)

Alcohol dehydrogenase
Cytochrome *P*-450 IIE1; Pyrazole oxidation; Microsome; (Rat liver) (Clejan, L.A. (1034) 233)

Stereospecificity; NMR; (*S. Solfataricus*) (Trincone, A. (1041) 94)

Alcohol dehydrogenase
Omega oxidation; Leukotriene B_4; 20-Oxoleukotriene B_4; 20-Hydroxyleukotriene B_4; (Human neutrophil) (Gotoh, Y. (1043) 52)

Alcohol oxidase
Electron microscopy; Image analysis; (*H. polymorpha*) (Vonck, J. (1038) 74)

Alcohol withdrawal seizure
Hexokinase; Alcohol; Ischemia (Laursen, S.E. (1034) 118)

Aldolase
Fluorescence; NAD binding domain; (Rabbit muscle) (Chumachenko, Y.V. (1038) 274)

Bisphosphoric ester; Active site; Binding constant; Substrate analog (Ogata, H. (1041) 254)

Aldosterone
ATPase, Na^+/K^+-; Sodium ion efflux; (Rabbit) (Blot-Chabaud, M. (1022) 126)

Alfalfa
β-Amylase; Germinating seed; Isoform (Kohno, A. (1035) 325)

Algal cell, recalcitrant
Chlorophyll *a*, refractory; Chlorophyll *b*, refractory; Alkaline methanol extraction; Magnesium-rhodochlorin derivative; Chlorophyll dephytylation; Allomerization (Porra, R.J. (1015) 493)

Alignment
Inorganic pyrophosphatase; Active site residue; Amino acid sequence; Protein flexibility (Lahti, R. (1038) 338)

Alkaline methanol extraction
Chlorophyll *a*, refractory; Chlorophyll *b*, refractory; Algal cell, recalcitrant; Magnesium-rhodochlorin derivative; Chlorophyll dephytylation; Allomerization (Porra, R.J. (1015) 493)

Alkaline phosphatase
Intestinal brush border; Disaccharidase; Enzyme turnover; Pancreatic proteinase (Young, G.P. (1022) 393)

Phosphatidylinositol (Lowe, M. (1037) 170)

Alkaline phosphatase isozyme
Phosphatidate hydrolysis; Synthetic phosphatidate; Sodium deoxycholate; (Human) (Sumikawa, K. (1046) 27)

Alkaloid–nucleic acid interaction
Berberine; Poly(A); tRNA (Nandi, R. (1049) 339)

***n*-Alkanol**
Calcium ion activated potassium ion channel; Potassium ion channel; Glioma cell; Charybdotoxin; Calcium ionophore; Ionophore A23187 (Tas, P.W.L. (1023) 436)

Alkylacetylglycerophosphocholine
PAF; Lyso-PAF; (Human T lymphocyte) (Travers, J.B. (1042) 193)

Alkylammonium carboxylate surfactant
Retinylidene; Schiff base chromophore; Reversed micelle; Micelle, reversed; Rhodopsin (Singh, A.K. (1036) 34)

Alkyl lysolipid
Lysolipid; Sugar transport; Red blood cell; Lipid–protein interaction; Antineoplastic immunomodulatory agent (Melchior, D.L. (1028) 1)

***N*-Alkylmaleimide**
D-Lactate dehydrogenase; Interaction; Nonpolar; (*H. influenzae*) (Denicola-Seoane, A. (1040) 84)

Alkylmethylglucamide
Nonionic surfactant; *N*-D-Gluco-*N*-methylalkanamide (Walter, A. (1029) 67)

Alkylthioacetic acid
Sulfur oxygenation; Omega oxidation; Peroxisome proliferator; (Liver); (Kidney); (Lung); (Muscle); (Intestine) (Bergseth, S. (1045) 90)

Allomerization
Chlorophyll *a*, refractory; Chlorophyll *b*, refractory; Algal cell, recalcitrant; Alkaline methanol extraction; Magnesium-rhodochlorin derivative; Chlorophyll dephytylation (Porra, R.J. (1015) 493)

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Allosteric interaction
Ligand binding; Serum albumin (bovine and human); Fatty acid; Hematoporphyrin; ESR; Spin label (Gantchev, T.G. (1037) 422)

Allosuppressor
Translational fidelity; Suppressor; (*A. nidulans*) (Perera, S. (1050) 279)

Alpha–beta subunit interaction
Insulin receptor; Tyrosine kinase; Ligand binding affinity; Kinase defective insulin receptor (Maegawa, H. (1053) 185)

Aluminum hydroxide
VDAC; Metal binding site; Voltage dependence; Channel; Mitochondrion (Zhang, D.-W. (1025) 127)

Alveolar macrophage
t-Butyl hydroperoxide; 5-Lipoxygenase; Leukotriene B_4; Chemotaxis; ATP (Robison, T.W. (1045) 9)

Arachidonic acid; Hydrogen peroxide; Protein kinase C; Staurosporine; Phorbol myristate acetate (Sporn, P.H.S. (1047) 192)

Alzheimer's disease
Spin label; Membrane skeletal protein; Erythrocyte membrane; Structure–activity (Palmieri, D.A. (1024) 285)

ATPase, Ca^{2+}-; Membrane fluidity; Calcium ion concentration, intraplatelet; Smooth endoplasmic reticulum; Lipid peroxidation; Vitamin E (Hajimohammadreza, I. (1025) 208)

Amyloid precursor protein; Inhibition constant; Serine proteinase inhibitor; Enzyme specificity; Protease nexin (Kitaguchi, N. (1038) 105)

AMBER
Molecular modelling; Coenzyme–enzyme interaction; NAD^+; NAD^+ analog; Enzyme kinetics (Beijer, N.A. (1039) 227)

Ambiquitous enzyme
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***ksgA* methyltransferase**
16S RNA mutagenesis; 16S RNA methylation; Ribosome function (Cunningham, P.R. (1050) 18)

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Sodium-proton exchanger; Vicinal dithiol group; Phenylarsine oxide; Brush border; (Human placenta) (Kulanthaivel, P. (1024) 385)

Norepinephrine; cyclic AMP; Absorption; Secretion (Escobar, E. (1027) 257)

Amine group
Ferredoxin; Methylation; Protein stability (Gluck, M. (1038) 146)

ϵ-Aminidated phospholipase A_2
Phospholipase A_2; Lauroyl-lysine^{116}-; Malaria; Erythrocyte membrane; Lipid packing; (Porcine pancreas) (Moll, G.N. (1024) 189)

D-Amino acid
Amino acid racemization; D-Aspartate; Protein hydrolysis; D-Amino acid hydrolysis; (Human cataract lens) (D'Aniello, A. (1037) 200)

Amino acid addition
Post-translational modification; Protein modification; Carboxypeptidase digestion; Nerve regeneration (Dayal, V.K. (1038) 172)

Amino acid composition
Triacylglycerol; Diacylglycerol acyltransferase; Enzyme structure; (*G. max* L. Merr.) (Kwanyuen, P. (1039) 67)

Erythrocyte acid phosphatase (ACP1); Enzyme kinetics; Transition temperature; (Human red cell) (Dissing, J. (1041) 232)

Codon preference; Major codon; tRNA isoacceptor; (*E. coli*) (Emilsson, V. (1050) 248)

D-Amino acid hydrolysis
Amino acid racemization; D-Aspartate; D-Amino acid; Protein hydrolysis; (Human cataract lens) (D'Aniello, A. (1037) 200)

Amino acid racemization
D-Aspartate; D-Amino acid; Protein hydrolysis; D-Amino acid hydrolysis; (Human cataract lens) (D'Aniello, A. (1037) 200)

Amino acid sequence
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Lectin; Blood group A; *N*-Acetyl-D-galactosamine; (*C. striata*) (Khang, N.Q. (1033) 210)

Zinc-α_2-glycoprotein; Glycoprotein; Seminal plasma; Carbohydrate content; (Human) (Ohkubo, I. (1034) 152)

Phospholipase A_2; Circular dichroism; (*N. naja naja*) (Davidson, F.F. (1037) 7)

Apolipoprotein B-100; Sulfhydryl peptide; LDL; Lipoprotein (a); Fluorescent labeling (Coleman, R.D. (1037) 129)

Primary structure; Ferredoxin; (*S. griseus*) (Trower, M.K. (1037) 290)

Snake venom; Neurotoxin; Phospholipase (Bieber, A.L. (1037) 413)

Inorganic pyrophosphatase; Active site residue; Alignment; Protein flexibility (Lahti, R. (1038) 338)

Lectin; Primary structure; Invertebrate lectin; (Acorn barnacle) (Muramoto, K. (1039) 42)

Disintegrin; Integrin; Glycoprotein IIb-IIIa; Recognition site; (Human platelet) (Williams, J. (1039) 81)

Serum albumin; Albumin; Genetic variant; Isoelectric focusing; HPLC; (Human) (Minchiotti, L. (1039) 204)

Dihydrofolate reductase; Enzyme purification; Affinity chromatography; (*D. melanogaster*) (Rancourt, S.L. (1039) 261)

Ribosomal protein; Archaebacterium; Evolution; Amino terminal acetylation; Acetylation, amino terminal; (*H. marismortui*) (Hatakeyama, T. (1039) 343)

Metallothionein; Protein structure; (Duck) (Lin, L.-Y. (1041) 31)

Red blood cell; Hemoglobin; cDNA; (*G. dibranchiata*) (Zafar, R.S. (1041) 117)

Ribosomal protein S20; Protein primary structure; S20 protein; (Rat) (Chan, Y.-L. (1049) 93)

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cDNA; Cotton; Isocitrate lyase; Nucleotide sequence (Turley, R.B. (1049) 223)

Protein synthesis; Initiation factor; Elongation factor; Evolutionary conservation (Merrick, W.C. (1050) 235)

Amino acid sequence; Ribosomal protein, basic
Archaebacterial gene cluster; Evolution (Bergmann, U. (1050) 56)

Amino acid sequencing
Bradykinin; Amphibian skin; Hemolysis; (*R. esculenta*) (Simmaco, M. (1033) 318)

Amino acid transport
System $b^{0,+}$; System L; Development; Preimplantation conceptus; (Mouse egg); (Mouse embryo) (Van Winkle, L.J. (1021) 77)

Cross-inhibition analysis; Basal membrane vesicle; (Human placenta) (Kudo, Y. (1021) 169)

Vesicle preparation; Membrane orientation; Glucose transport; (Teleost intestine) (Drai, P. (1022) 251)

Membrane vesicle; System A; Adaptive regulation; (Rat hepatoma) (Fong, A.D. (1022) 325)

L-Lysine transport; Ammonium ion; (Yeast); (*S. pombe*) (Horák, J. (1023) 380)

Isotope dilution; Fibroblast; Methotrexate; (Colon adenocarcinoma) (Perán, S. (1024) 233)

System $b^{0,+}$; Cation effect; Receptor site structure; (Blastocyst); (Mouse embryo); (Mouse egg) (Van Winkle, L.J. (1025) 215)

System B; System $B^{0,+}$; Development; Preimplantation conceptus; (Mouse egg); (Mouse embryo) (Van Winkle, L.J. (1025) 225)

Brush-border membrane; Sodium ion cotransport; Proline; Intestinal transport; (*A. anguilla*) (Maffia, M. (1027) 8)

Chloride dependence; (Rabbit ileum) (Munck, L.K. (1027) 17)

Development; Tryptophan; System T; Blastocyst; (Mouse embryo) (Van Winkle, L.J. (1027) 268)

Caco-2; Phenylalanine; Transcellular transport (Hidalgo, I.J. (1028) 25)

Cationic amino acid; Development; Preimplantation conceptus; (Mouse egg); (Mouse embryo) (Van Winkle, L.J. (1028) 165)

L-Alanine; Kinetic constant; Sodium ion dependence; (Rabbit gastric gland) (Bravo, I. (1029) 98)

Plasma membrane; Glutamine; (Human fibroblasts) (Dall'Asta, V. (1052) 106)

Homocysteine uptake; Endothelial cell; Homocystinuria; Thiol (Ewadh, M.J.A. (1054) 263)

Aminoacyl adenylate
Pyoverdine; Siderophore; (*Azotobacter*) (Menhart, N. (1038) 47)

Aminoacylation
tRNA-like structure; Turnip yellow mosaic virus; Transcription in vitro; RNA conformation (Mans, R.M.W. (1050) 186)

Aminoacyl-tRNA complex formation
Elongation factor Tu; Kirromycin; Fluorescence titration; Zone-interference gel electrophoresis (Abrahams, J.P. (1050) 226)

Aminoacyl-tRNA synthetase
Chromatofocusing; Phosphorylation; Isoelectric point (Berg, B.H. (1038) 391)

Isoaspartate formation; Protein carboxyl methylation (Momand, J.A. (1040) 153)

L-α-Aminoadipate δ-semialdehyde
L-Pipecolic acid metabolism; Pipecolate oxidase; Zellweger syndrome; Peroxisome defect; Lysine metabolism (Rao, V.V. (1038) 295)

L-α-Aminoadipate δ-semialdehyde oxidoreductase
L-α-Aminoadipic acid; Lysine metabolism; Pipecolic acid metabolism; Peroxisome defect; Zellweger syndrome (Chang, Y.-F. (1038) 300)

L-α-Aminoadipic acid
L-α-Aminoadipate δ-semialdehyde oxidoreductase; Lysine metabolism; Pipecolic acid metabolism; Peroxisome defect; Zellweger syndrome (Chang, Y.-F. (1038) 300)

Aminobutyrate aminotransferase
(*R*)-β-Aminoisobutyrate; (*S*)-β-Aminoisobutyrate; D-3-Aminoisobutyrate-pyruvate aminotransferase; (Rat liver) (Tamaki, N. (1035) 117)

β-Amino fatty acid
Iturin biosynthesis; β-Hydroxy fatty acid; (*B. subtilis*) (Besson, F. (1036) 101)

Aminoglycoside
Brush-border membrane; Vesicle aggregation; Gentamicin; *N*-Acetylneuraminic acid; Nephrotoxicity; (Rat kidney) (Aramaki, Y. (1023) 352)

6-Aminohexanoate
Plasminogen; Urokinase; Chloride ion (Machovich, R. (1040) 109)

***p*-Aminohippurate**
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5-Aminoimidazole riboside
Thiamin; Biosynthesis; Labeled compound (Estramareix, B. (1035) 154)

(*R*)-β-Aminoisobutyrate
(*S*)-β-Aminoisobutyrate; Aminobutyrate aminotransferase; D-3-Aminoisobutyrate-pyruvate aminotransferase; (Rat liver) (Tamaki, N. (1035) 117)

(*S*)-β-Aminoisobutyrate
(*R*)-β-Aminoisobutyrate; Aminobutyrate aminotransferase; D-3-Aminoisobutyrate-pyruvate aminotransferase; (Rat liver) (Tamaki, N. (1035) 117)

D-3-Aminoisobutyrate-pyruvate aminotransferase
(*R*)-β-Aminoisobutyrate; (*S*)-β-Aminoisobutyrate; Aminobutyrate aminotransferase; (Rat liver) (Tamaki, N. (1035) 117)

2-Amino-3-ketobutyrate CoA ligase
Threonine metabolism; Pyridoxal phosphate; Pyridoxyllysine peptide; (*E. coli*) (Mukherjee, J.J. (1037) 24)

5-Aminolevulinate synthase
Porphyrin; Harderian gland; HPLC; (Hamster) (Spike, R.C. (1034) 1)

Aminopeptidase
Thermostability; Archaebacterium; (*S. solfataricus*) (Hanner, M. (1033) 148)

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Aminophospholipid translocase
Lipid asymmetry; Flip-flop; Prothrombinase; Membrane shedding; Platelet; Erythrocyte (Comfurius, P. (1026) 153)

Aminopyridine
Zeta potential; Synaptic plasma membrane; Calcium ion dependence (Smejtek, P. (1029) 259)

2-Aminopyridine
N-Acetylglucosaminyltransferase; HPLC; (Rat) (Nishikawa, A. (1035) 313)

4-Aminopyridine
Epithelium; Pneumocyte; Quinine; Patch clamp; Potassium ion channel; (Rat lung) (Peers, C. (1052) 113)

5-Aminosalicylic acid
Myeloperoxidase; Compound II; Chlorinating activity; Ascorbic acid (Zuurbier, K.W.M. (1037) 140)

Amino terminal acetylation
Amino acid sequence; Ribosomal protein; Archaebacterium; Evolution; Acetylation, amino terminal; (*H. marismortui*) (Hatakeyama, T. (1039) 343)

Amino-terminal group
Snake venom; Presynaptic neurotoxin; Phospholipase A_2; Notexin (Yang, C.-C. (1040) 35)

Amino terminal sequence
Epidermal growth factor; Mass spectral analysis; (Rat urine) (Nexø, E. (1037) 388)

Glutamate synthase; Homology; Iron-sulfur protein; Flavoprotein; Protein structure; (*A. brasilense*) (Vanoni, M.A. (1039) 374)

Aminotransferase
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Ammonia
Futile cycle; Potassium; Active transport; Bacterial growth (Neijssel, O.M. (1018) 252)

Ammonia formation
Cyanobacterium; Hydroxylamine dismutase; Nitrite formation; Hydrogen peroxide; (*P. uncinatum*) (Bagchi, S.N. (1041) 9)

Ammoniagenesis
Chronic acidosis; NMR, ^{13}C-; GC-MS; Tricarboxylic acid cycle; (Renal tubule) (Nissim, I. (1033) 194)

Glutamine; Glutamate; Valproate; (Human kidney) (Martin, G. (1033) 261)

Ammonium ion
L-Lysine transport; Amino acid transport; (Yeast); (*S. pombe*) (Horák, J. (1023) 380)

Amnion
Prostaglandin; Chorion; Labor (Lundin-Schiller, S. (1053) 151)

8-bromo cyclic AMP
Vasopressin; Protein kinase C; Glucagon; Norepinephrine; Phorbol ester; (Rat hepatocyte) (Pittner, R.A. (1043) 211)

cyclic AMP
Membrane fluidity; Transport system; Benzyl alcohol; Sodium ion cotransport; (Renal proximal cell) (Friedlander, G. (1022) 1)

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Anion channel blocker; Anion transport; Adenylate cyclase; Bicarbonate; Sperm (Tajima, Y. (1034) 326)

Glucose-6-phosphate dehydrogenase synthesis; mRNA solution assay; Nutrition (Kim, M.-H. (1049) 177)

Cytoskeletal synthesis; Actin synthesis; Tubulin synthesis; Calcium, intracellular; (Mouse osteoblast cells) (Lomri, A. (1052) 179)

Propranolol; Amylase; Isobutylmethylxanthine; Forskolin; (Parotid gland acinar cell) (Takuma, T. (1052) 461)

Transcription; Protein synthesis; (*Chlamydia*) (Kaul, R. (1053) 106)

Adenylate cyclase; Prostacyclin; Microvessel; Kidney (Chaudhari, A. (1053) 156)

Platelet aggregation; Fatty acid; Calcium ion mobilization; Membrane fluidity; (Bovine blood) (Kitagawa, S. (1054) 114)

Phorbol myristate acetate; Bicarbonate; Adenylate cyclase; (Hamster spermatozoa) (Visconti, P.E. (1054) 231)

Adenylate cyclase; Calmodulin; Calmodulin-like activity; (*Anabaena*); (Cyanobacteria) (Bianchini, G.M. (1055) 75)

cyclic AMP dependent kinase
Erythrocyte protein; Protein phosphorylation (Horne, W.C. (1055) 87)

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Catalytic subunit; Stabilization; Purification; Crystallization; (Bovine heart) (Okuno, S. (1038) 204)

Cholesteryl ester hydrolase; P388D_1 macrophage; Prostaglandin E_1 (Goldberg, D.I. (1042) 132)

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Protein kinase C; Vasoactive intestinal polypeptide; Prostaglandin E_2 (Dobson, P.R.M. (1052) 323)

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Triacylglycerol turnover; Linoleic acid; (Human endothelial cell) (Haas, T.A. (1051) 174)

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Amphibian skin
Bradykinin; Amino acid sequencing; Hemolysis; (*R. esculenta*) (Simmaco, M. (1033) 318)

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Lipid–peptide interaction; Tryptophan fluorescence; Circular dichroism; Liposome (Ono, S. (1022) 237)

Amphiphile
Cationic liposome; Liposome–cell interaction; Transfection (Leventis, R. (1023) 124)

Association probability; Linear molecule; Monolayer; Cluster (Popescu, D. (1030) 238)

Amphiphilic monomer
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Amphotericin B
Liposome; Vesicle; Polyene antibiotic; (*C. albicans*) (Jullien, S. (1021) 39)

Sodium deoxycholate; Lauryl sucrose; Surfactant; Micelle; Aggregation (Tancrède, P. (1030) 289)

Amphotericin B derivative
Polyene antibiotic; Antibiotic–membrane interaction; Potassium pore; (Human erythrocyte) (Wietzerbin, J. (1026) 93)

Ampicillin acylase
Purification; (*P. melanogenum*) (Kim, D.J. (1040) 12)

***trpA* mutant suppression**
Nucleotide sequence; Nonsense codon; Base change; Context; (Bacteria) (Buckingham, R.H. (1050) 259)

Amylase
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α-Amylase
Gene expression; Restriction enzyme map; Cloned DNA; Promoter region; (*Bacillus circulans* DNA); (*E. coli*) (Kim, C.-H. (1048) 223)

β-Amylase
Alfalfa; Germinating seed; Isoform (Kohno, A. (1035) 325)

Amylase assay
p-Nitrophenyl 3^5-*O*-β-*N*-acetylglucosaminyl-α-maltopentaoside; Enzymatic transglycosylation (Matsui, H. (1035) 90)

Amylase mRNA
Exocrine pancreas; Dexamethasone; Postnatal development; (Rat) (Lee, P.-C. (1049) 244)

Amyloid P component
Sugar chain; Sialic acid (Hamazaki, H. (1037) 435)

Amyloid precursor protein
Alzheimer's disease; Inhibition constant; Serine proteinase inhibitor; Enzyme specificity; Protease nexin (Kitaguchi, N. (1038) 105)

Amyloid protein
Apolipoprotein A-I; HDL; Inflammation; Apolipoprotein SAA (Tape, C. (1043) 295)

Anaerobic bacterium
ATPase, H^+-; Factor F_1; ATPase, F_1-; (*L. casei*) (Muntyan, M.S. (1016) 371)

Anaerobic metabolism
Calorimetry; Respirometry; Oxycaloric equivalent; Thermodynamic efficiency; Metabolism; (Human cell culture) (Gnaiger, E. (1016) 328)

Anaerobic respiration
Photosynthesis; Redox balance; Electron transport; Photosynthetic bacterium; (*Rb. capsulatus*) (Jones, M.R. (1017) 209)

Androgen action
Aging; Protein purification; Immunocytochemistry; Lobular zonation; (Rat liver) (Chatterjee, B. (1034) 162)

Androgen receptor
LNCaP tumor cell; Steroid binding; Tumor cell; Specificity; (Human prostatic carcinoma) (Veldscholte, J. (1052) 187)

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Pentobarbital; ATPase, $(Ca^{2+} + Mg^{2+})$-; Sarcoplasmic reticulum (Fernandez-Salguero, P. (1022) 33)

Volatile anesthetic; Model membrane; Bound water; Dielectric measurement; Microwave (Enders, A. (1029) 43)

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Anesthesia theory
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Anesthesia theory
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Anesthetic
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Phosphoinositide metabolism; Brain; Inositol lipid metabolism; (Guinea pig) (Nishizawa, Y. (1054) 213)

Anesthetic–lipid interaction
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Anesthetic mechanism
Mitochondrial ATP synthase; ATP-synthase; Phenothiazine (Dabbeni-Sala, F. (1015) 248)

Mitochondrial ATP synthase; ATPase; Phenothiazine (Dabbeni-Sala, F. (1026) 117)

Angiotensin converting enzyme
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Cationophore; Ouabain sensitive Na^+/K^+ ATPase; ATPase, Na^+/K^+-; (Bovine endothelial cell) (Dasarathy, Y. (1051) 14)

PAF; Angiotensin I; Angiotensin II; (Pulmonary endothelial cell) (Kawaguchi, H. (1052) 503)

Angiotensin I
PAF; Angiotensin converting enzyme; Angiotensin II; (Pulmonary endothelial cell) (Kawaguchi, H. (1052) 503)

Angiotensin I converting enzyme
Enzyme inhibition; Ramiprilat; (Rabbit lung) (Skoglöf, A. (1041) 22)

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Anion exchange
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Anionic lipid content
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Anionic phospholipid
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Anion channel blocker; Adenylate cyclase; Bicarbonate; cyclic AMP; Sperm (Tajima, Y. (1034) 326)

Ankyrin
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Anoxia
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Anserine
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Antenna
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Antenna complex
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Antenna model
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Antenna size
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Anthracene
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Anthracycline
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Daunorubicin; Transport kinetics; P-glycoprotein; Transmembrane pH; Exocytosis; (Ehrlich ascites tumor) (Demant, E.J.F. (1055) 117)

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Anthraquinone
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***n*-(9-Anthroyloxy) fatty acid probe**
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16-(9-Anthroyloxy)palmitoyl-CoA
Palmitoyl-CoA; Bovine serum albumin; Fluorescence; Anthracene (Richards, E.W. (1044) 361)

Antibacterial activity
Phase separation; Polycation; Phospholipid bilayer; Antimicrobial activity; Minimum inhibitory concentration; DSC (Ikeda, T. (1026) 105)

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ATPase, Ca^{2+}-; Calcium ion dependence; Photocleavage; Vanadate; Sarcoplasmic reticulum (Vegh, M. (1023) 168)

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Actin isoform; Actin fragment; Immune response (Stuewer, D. (1039) 5)

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Antibody against eIF-2
Translational control; mRNA binding; methionyl-$tRNA_f$ binding; Eukaryotic initiation factor 2; eIF-2 epitope (Harary, R. (1050) 129)

Antibody-liposome coupling
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Antibody, peptide-specific polyclonal
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Anticodon loop
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Anticodon stem
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Antiestrogen binding site
Oxygenated sterol; Oxysterol binding protein; Antiestrogen (Hwang, P.L.H. (1033) 154)

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Antigen
Calcium ion; Glucocorticosteroid; Leukotriene C_4; (Rat basophilic leukemia 2H3 cell) (Her, E. (1051) 203)

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Antigen expression
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Antigen, Ia-
Interferon γ; α_2-Macroglobulin; Antigen expression; Class II major histocompatibility complex (Roche, P.A. (1051) 166)

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Anti-inflammatory
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Antimicrobial activity
Phase separation; Polycation; Phospholipid bilayer; Antibacterial activity; Minimum inhibitory concentration; DSC (Ikeda, T. (1026) 105)

Antimony
ATPase; Ion transport; Anion pump; Arsenic; Plasmid resistance (Rosen, B.P. (1018) 203)

Antineoplastic immunomodulatory agent
Lysolipid; Sugar transport; Alkyl lysolipid; Red blood cell; Lipid–protein interaction (Melchior, D.L. (1028) 1)

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Antioxidant activity
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Antioxygenic activity
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Antiplatelet agent
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Antiporter, Na^+/H^+
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Antisense DNA probe
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Antitumor
Anthracycline antibiotic; Collagenase inhibitor (Karakiulakis, G. (1035) 218)

Antitumor agent
Celiptium; 4-Hydroxyalkenal; Lipid peroxidation; Phosphatidylethanolamine (Raguenez-Viotte, G. (1046) 294)

Antitumor drug
ESR; Hypoxanthine; Xanthine oxidase; Nitroxide reduction; Oxygen radical; Semiquinone; Liposome; Spin label reduction; Quinone; Anthracycline (Alegría, A.E. (1035) 51)

Thioredoxin reductase; (Human); (Melanotic melanoma) (Schallreuter, K.U. (1054) 14)

Antizyme binding
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AP endonuclease
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Apical membrane
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Apical membrane vesicle
Sodium ion/proton transport; Sodium ion–proton exchange; (Lamb alveolar type II cell) (Shaw, A.M. (1028) 9)

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Male-female difference; apo A-I turnover; Plasma volume; (Cynomolgus monkeys) (Melchior, G.W. (1043) 97)

apo A-I turnover
Male-female difference; apo A-I synthesis rate; Plasma volume; (Cynomolgus monkeys) (Melchior, G.W. (1043) 97)

Apocytochrome *c*
Myelin basic protein; Cytochrome *c*: Fatty acid titration; Spin label; ESR (Sankaram, M.B. (1021) 63)

Circular dichroism; Micelle; Vesicle; Lipid–protein interaction (De Jongh, H.H.J. (1029) 105)

Apohemocyanin
Hemocyanin; SOD-like; Pulse radiolysis; Superoxide anion (Quéinnec, E. (1041) 153)

Apolipophorin
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Apolipoprotein
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Apolipoprotein B; Solubility; Immunoblotting; Electron microscopy; Aqueous solution; LDL; (Rat) (Kamanna, V.S. (1043) 119)

Chylomicron; Very-low-density lipoprotein; Nephrotic syndrome; Lipoprotein lipase; (Rat muscle); (Rat liver); (Rat adipose tissue) (Levy, E. (1043) 259)

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Apolipoprotein A-I
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Recombinant HDL; Apolipoprotein A-II; (Human plasma) (Rye, K.-A. (1042) 227)

HDL; Nephrosis; Blood protein; mRNA level; (Rat plasma) (Marshall, J.F. (1042) 271)

Apolipoprotein A-I
Apolipoprotein variant; Protein characterization; HDL; (Human) (Takada, Y. (1043) 169)

HDL; Apolipoprotein conformation; Helical segment, amphipathic (Brasseur, R. (1043) 245)

HDL; Inflammation; Apolipoprotein SAA; Amyloid protein (Tape, C. (1043) 295)

HDL; Lipoprotein uptake; Cholesteryl ester; (Human macrophage) (Rinninger, F. (1043) 318)

Hepatic lipase; HDL; Triacylglycerol; (Rabbit) (Clay, M.A. (1044) 50)

Apolipoprotein A-II; HDL binding; HDL subclasses; Cholesteryl ester transport; (Human hepatocyte) (Kilsdonk, E.P.C. (1045) 205)

HDL; Secretion; HepG2 cell (Ranganathan, S. (1046) 223)

Chinese hamster ovary cells; Apolipoprotein A-I gene transfection; Nascent HDL; Lecithin:cholesterol acyltransferase (Forte, T.M. (1047) 11)

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Apolipoprotein A-I gene transfection
Apolipoprotein A-I; Chinese hamster ovary cells; Nascent HDL; Lecithin:cholesterol acyltransferase (Forte, T.M. (1047) 11)

Apolipoprotein $A\text{-}I_{Milano}$
Cholesterol esterification; Lecithin:cholesterol acyltransferase deficiency; (Human) (Franceschini, G. (1043) 1)

Apolipoprotein A-II
Recombinant HDL; Apolipoprotein A-I; (Human plasma) (Rye, K.-A. (1042) 227)

Apolipoprotein A-I; HDL binding; HDL subclasses; Cholesteryl ester transport; (Human hepatocyte) (Kilsdonk, E.P.C. (1045) 205)

Apolipoprotein A-IV
Lipid metabolism; Receptor; Reverse cholesterol transport; Cholesterol; Membrane protein; (Rat liver) (Ghiselli, G. (1044) 173)

Hepatic membrane; Liver; Lipoprotein; Binding specificity; Displacement (Weinberg, R.B. (1044) 255)

Apolipoprotein B
Cholesterol; CS-514; Apolipoprotein A-I; LDL; (Human hepatoblastoma cell line) (Sato, R. (1042) 36)

Apolipoprotein; Solubility; Immunoblotting; Electron microscopy; Aqueous solution; LDL; (Rat) (Kamanna, V.S. (1043) 119)

Lipoprotein; LDL; Ultraviolet; Peroxidation; Fatty acid; Reactive amino group (Dousset, N. (1045) 219)

Glycosylation; Proteolytic cleavage; LDL receptor; (Hepatoma cell line) (La Belle, M. (1046) 288)

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Amino acid sequence; Sulfhydryl peptide; LDL; Lipoprotein (a); Fluorescent labeling (Coleman, R.D. (1037) 129)

Apolipoprotein C-I
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Apolipoprotein C-II
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Apolipoprotein–cell interaction
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Apolipoprotein conformation
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Apolipoprotein E
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Apolipoprotein receptor
Apolipoprotein–cell interaction; (Bovine aortic endothelial cell) (Vadiveloo, P.K. (1045) 135)

Apolipoprotein SAA
Apolipoprotein A-I; HDL; Inflammation; Amyloid protein (Tape, C. (1043) 295)

Apolipoprotein secretion
Oleic acid; (Human cell culture) (Moberly, J.B. (1042) 70)

Apolipoprotein variant
Apolipoprotein A-I; Protein characterization; HDL; (Human) (Takada, Y. (1043) 169)

Apoprotein A-I-containing lipoprotein
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Apoprotein catabolism
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Apoprotein, Purification
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Aqueous solution
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Apolipoprotein B; Apolipoprotein; Solubility; Immunoblotting; Electron microscopy; LDL; (Rat) (Kamanna, V.S. (1043) 119)

Arachidonate metabolism
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Arachidonic acid
Ionophore mechanism; Kinetics; Calcium ion transport; Platelet microsome (Fischer, T.H. (1022) 215)

Triacylglycerol; Fasting; Liver; Icosapentaenoic acid; Docosahexaenoic acid (Cunnane, S.C. (1036) 64)

Icosapentaenoic acid; Docosahexaenoic acid; Fatty acid metabolism; Leukotriene; Lipoxygenase product; (Rainbow trout leukocyte); (*S. gairdneri*) (Pettitt, T.R. (1042) 62)

Lipid peroxidation; Lipoprotein; Tryptophan residue; (Human serum) (Reyftmann, J.-P. (1042) 159)

Icosapentaenoic acid; Docosapentaenoic acid; Macrophage; Elongase (Chapkin, R.S. (1042) 265)

Cytochrome *P*-450; Prostaglandin A_1; Lauric acid; Hydroxylation; (Rat hepatic microsome) (Tanaka, S. (1043) 177)

Fatty acid; Essential fatty acid; Δ^9-Desaturase; Oleate; Liver; (Mouse) (Lefkowith, J.B. (1044) 13)

Chylomicron metabolism; Essential fatty acid deficiency; Linoleic acid; (Rat) (Hjelte, L. (1044) 101)

Lipase; Colipase; Carboxyl ester lipase; Icosapentaenoic acid; (Fish oil) (Chen, Q. (1044) 111)

Dietary protein; Icosatrienoic acid; Fatty acid; Linoleic acid; Phosphatidylinositol; (Male rat); (Liver) (Sjöblom, L. (1044) 187)

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Phospholipase A_2; Calcium; Anionic phospholipid; Macrophage cell line; (Mouse) (Leslie, C.C. (1045) 261)

Phospholipase A_2; (Rat stomach) (Yasuda, T. (1046) 189)

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Alveolar macrophage; Hydrogen peroxide; Protein kinase C; Staurosporine; Phorbol myristate acetate (Sporn, P.H.S. (1047) 192)

Prostaglandin I_2; Calcium; (Endothelial cell) (Martin, T.W. (1054) 159)

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12*S*-Hydroxyicosatetraenoic acid; Platelet aggregation; (Bovine platelet) (Sekiya, F. (1044) 165)

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Arachidonic acid metabolism
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Archaebacterium
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L-Ascorbic acid α-glucoside
L-Ascorbic acid; α-Glucosidase; Transglucosylation (Yamamoto, I. (1035) 44)

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Asialoorosomucoid
Asialoglycoprotein receptor; Receptor mediated endocytosis; Ethanol; (Rat hepatocyte) (Casey, C.A. (1052) 1)

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Mitochondrion; ADP/ATP carrier; Reconstitution; Thiol modification; Membrane permeability (Dierks, T. (1028) 281)

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ATPase–ATPase interaction
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ATPase, H^+-
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Factor F_1; ATPase, F_1-; Anaerobic bacterium; (*L. casei*) (Muntyan, M.S. (1016) 371)

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ATPase inhibitor
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ATPase, F_1-; Co-operativity; Azide inhibition; (Chloroplast) (Andralojc, P.J. (1016) 55)

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ATPase, Na^+/K^+-
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ATP:citrate lyase
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ATP dependence
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Cross-reconstitution; ATPase, F_1-; Oligomycin sensitivity; Mitochondrion; (Plant) (Norling, B. (1015) 49)

Mitochondrial ATP synthase; Phenothiazine; Anesthetic mechanism (Dabbeni-Sala, F. (1015) 248)

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Proton slip; Photophosphorylation; Thylakoid; (Lettuce) (Evron, Y. (1019) 115)

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ATP synthase, H^+-
Energy transduction; Protonmotive force; Membrane composition; Chloroplast; Proton translocation stoichiometry; ATPase complex; (Cyanobacteria) (Van Walraven, H.S. (1015) 425)

ATP synthesis
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ATP hydrolysis; Calcium ion inhibition; Adenine nucleotide complex; (Bovine heart mitochondria) (Vercesi, A.E. (1020) 101)

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Atrial natriuretic peptide
Guanylate cyclase; cGMP; ATP (Chang, C.-H. (1052) 159)

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Attenuated total reflection spectroscopy
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AU-1421
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ATPase, F_1-; ADP binding inhibitory site; Photoaffinity labeling; Catalytic site peptide; (Bovine heart mitochondria) (Milgrom, Y.M. (1020) 43)

2-Azido-ATP
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Manganese; Catalase; ESR; Oxygen evolution; Photosynthesis (Khangulov, S.V. (1020) 305)

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Reaction center; Proton uptake; Redox midpoint potential; (*Rb. sphaeroides*) (McPherson, P.H. (1019) 91)

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Bacteriochlorophyll *c*
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Bacteriochlorophyll *g*
Antenna-reaction center complex; Electron transport; Energy transfer; (*H. chlorum*) (*Hb. mobilis*) (Van de Meent, E.J. (1015) 223)

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Reaction center; Charge transfer; Bacteriochlorophyll; Electron transfer; Transient state (McDowell, L.M. (1020) 239)

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13-*cis*-Bacteriorhodopsin
Purple membrane; all-*trans*-Bacteriorhodopsin; Conformational change; Neutron diffraction (Dencher, N.A. (1026) 51)

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Benzene metabolism
Mitochondrion; Benzene hydroxylase; Phenol; (Rat liver) (Karaszkiewicz, J.W. (1035) 223)

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Bile acid reduction
Bile acid oxidation; (Rat liver) (Takikawa, H. (1043) 153)

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Biliary secretion
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Bile acid secretion; Perfusion; (Rat liver) (Sweeny, D.J. (1054) 21)

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Bilitranslocase
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Electrogenic transport; Arginine residue; Bilirubin; Sulfobromophthalein; (Rat liver) (Passamonti, S. (1025) 122)

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Cardiolipin analog
Diphosphatidylglycerol; Cardiolipin; Lysocardiolipin; Cytochrome *c*; Electrostatics; Cholate exchange (Abramovitch, D.A. (1020) 34)

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Manganese; Bacterial catalase; ESR; Oxygen evolution; Photosynthesis (Khangulov, S.V. (1020) 305)

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Cell differentiation
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Cell fusion
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Cell growth
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Cell proliferation
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Cell surface binding
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Cell suspension
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Cellular retinoic acid binding protein
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Cellular retinoid binding protein, F-type
Cellular retinol binding protein, type three; Retinol; Cellular retinoic acid binding protein; (Piscine retina) (Nishiwaki, S. (1037) 192)

Cellular retinol binding protein, type three
Cellular retinoid binding protein, F-type; Retinol; Cellular retinoic acid binding protein; (Piscine retina) (Nishiwaki, S. (1037) 192)

Cellular uptake
Bilirubin binding; Cell surface binding; Neural cell; (Murine neuroblastoma) (Amit, Y. (1055) 36)

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Cellulase
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Cellulose
Cellulase; Cellobiohydrolase I; Denaturation; Guanidine hydrochloride; Renaturation (Woodward, J. (1037) 81)

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Cephalosporin
β-Lactam; Cephalexin; Caco-2; Peptide transport; (Human intestine) (Dantzig, A.H. (1027) 211)

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Ceramide *N*-methylaminoethylphosphonate
Ceramide aminoethylphosponate; Phosphonosphingolipid distribution; FAB-MS; (Marine animal) (Matsubara, T. (1042) 280)

Cerebroside sulfatase
Sulfolipid metabolism; Development; Myelination; Arylsulfatase A; (Rat brain) (Van der Pal, R.H.M. (1043) 91)

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CF_1
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Photosystem I; P700; Triplet state; Photosynthesis (Sétif, P. (1020) 232)

Charge separation
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Photosynthesis; Reaction center; Electron transfer; Electrostatics; Radical pair; Free energy (Parson, W.W. (1017) 251)

Photosystem II; Reaction center; Triplet state; P680 (Van Kan, P.J.M. (1020) 146)

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NMR; ATPase, F_1-; Nucleotide binding; (Chloroplast) (Carr, M.D. (1015) 79)

ATPase, F_1-; Beta subunit; 2-Azido-ATP; (*E. coli*) (Bragg, P.D. (1015) 216)

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Peptide transport; β-Lactam antibiotic; Photoaffinity labeling; (Rabbit small intestine) (Kramer, W. (1028) 174)

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β-Glucosidase; Carbodiimide; EAC; Carboxyl; Catalytic mechanism; (*S. commune*) (Clarke, A.J. (1040) 145)

Xylanase; Tryptophan; Cysteine (Deshpande, V. (1041) 172)

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Immunoglobulin G; Superoxide; Degranulation; (Human neutrophils) (Aaku, E. (1052) 243)

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Alveolar macrophage; *t*-Butyl hydroperoxide; 5-Lipoxygenase; Leukotriene B_4; ATP (Robison, T.W. (1045) 9)

Chemotherapy drug
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N-Acetylglucosaminyltransferase IV; Oligosaccharide, N-linked; Complex type oligosaccharide; Lectin chromatography (Ogier-Denis, E. (1054) 149)

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Chloride
Bacteriorhodopsin; Purple membrane; Proton pump; Difference spectroscopy (Renthal, R. (1016) 378)

Anion transport; ATP dependence; Malate; Magnesium ion dependence; Vacuole (Dietz, K.-J. (1024) 318)

Thiazide receptor; Metolazone binding; Sodium; (Rat kidney) (Luo, H. (1052) 119)

Chloride channel
Cation channel, nonselective; Quinine; Patch clamp; (Rat distal colon); (Isolated cell) (Gögelein, H. (1027) 191)

Chloride channel inhibitor
Epithelium; Ouabain; Barium ion effect; Potassium ion conductance; (Cornea) (Reinach, P.S. (1026) 13)

Chloride cotransport
Beta cell membrane; Furosemide; Sodium ion; Cation transport; Rubidium ion efflux; (Mouse pancreatic β-cell) (Sandström, P.-E. (1023) 191)

Chloride dependence
Amino acid transport; (Rabbit ileum) (Munck, L.K. (1027) 17)

Chloride ion
Plasminogen; Urokinase; 6-aminohexanoate (Machovich, R. (1040) 109)

Chloride ion channel
Mucin secretion; DIDS; Potassium ion channel blocker; (Colonic adenocarcinoma) (Marcon, M.A. (1052) 17)

Chloride permeability
Protamine; Apical membrane; Potassium ion permeability; (*Necturus*); (Gallbladder) (Fromm, M. (1027) 179)

Chloride stimulated ATPase
ATPase, Cl^--stimulated; Sulfhydryl agent; Basolateral plasma membrane; Gut; (*Aplysia*) (Gerencser, G.A. (1023) 475)

Chloride transport
Reconstitution; ATPase, Cl^--stimulated; Digitonin (Gerencser, G.A. (1030) 301)

Chlorinating activity
Myeloperoxidase; Compound II; Ascorbic acid; 5-Aminosalicylic acid (Zuurbier, K.W.M. (1037) 140)

***p*-Chloromercuribenzene sulfonate**
Cell volume; *N*-Ethylmaleimide; ATPase, Na^+/K^+-; Actin, F-; Cytoskeleton; (Dogfish rectal gland cell) (Kleinzeller, A. (1025) 21)

Chloroperoxidase
Cytochrome *P*-450 (Lukat, G.S. (1037) 351)

Chlorophyll
Divinylprotochlorophyllide; Aggregation; Solid film; Absorption spectroscopy (Böddi, B. (1015) 116)

Chloroplast orientation; Reaction center; Photosynthesis (Rutherford, A.W. (1019) 128)

Chlorophyll a_1
Photosystem I; HPLC; Reaction center complex; Electron microscopy; (*Synechococcus*) (Rögner, M. (1015) 415)

Chlorophyll $a(a')$
Epimerization; Self-catalysis; Magnesium (Mazaki, H. (1016) 190)

Chlorophyll *a* fluorescence
Inactive Photosystem II center; Photosystem II; Quinone; Heat stress; (Spinach); (Soybean) (Cao, J. (1015) 180)

Chlorophyll *a*, refractory
Chlorophyll *b*, refractory; Algal cell, recalcitrant; Alkaline methanol extraction; Magnesium-rhodochlorin derivative; Chlorophyll dephytylation; Allomerization (Porra, R.J. (1015) 493)

Chlorophyll assay
Chlorophyll extraction; Recalcitrant alga; Dithionite; Ascorbic acid; (*N. atomus*) (Porra, R.J. (1019) 137)

Chlorophyll *b*, refractory
Chlorophyll *a*, refractory; Algal cell, recalcitrant; Alkaline methanol extraction; Magnesium-rhodochlorin derivative; Chlorophyll dephytylation; Allomerization (Porra, R.J. (1015) 493)

Chlorophyll dephytylation
Chlorophyll *a*, refractory; Chlorophyll *b*, refractory; Algal cell, recalcitrant; Alkaline methanol extraction; Magnesium-rhodochlorin derivative; Allomerization (Porra, R.J. (1015) 493)

Chlorophyll extraction
Chlorophyll assay; Recalcitrant alga; Dithionite; Ascorbic acid; (*N. atomus*) (Porra, R.J. (1019) 137)

Chlorophyll fluorescence
Herbicide resistance; Photosystem II; Quinone acceptor; Thermoluminescence; Electron transfer (Etienne, A.-L. (1015) 435)

Chlororespiration; Fluorescence induction; (*Mantoniella*); (Prasinophyceae) (Wilhelm, C. (1016) 197)

Carotenoid; Photoprotection; Zeaxanthin; Photosynthesis; (Plants) (Demmig-Adams, B. (1020) 1)

Fluorescence quenching; Anthraquinone; Quinone binding protein; Photosystem II; (Barley chloroplast) (Karukstis, K.K. (1020) 163)

Chlorophyll special pair
Photosystem II; Reaction center; Oxygen quenching; Triplet state; P680; Photodamage (Durrant, J.R. (1017) 167)

Chloroplast
ATPase, F_0F_1-; *b*-subunit; CF_01; (*E. coli*) (Schmidt, G. (1015) 195)

Mass spectroscopy; Flash-induced oxidation; Thylakoid; Nitrogen formation (Renger, G. (1015) 288)

ATP synthase, H^+-; Energy transduction; Protonmotive force; Membrane composition; Proton translocation stoichiometry; ATPase complex; (Cyanobacteria) (Van Walraven, H.S. (1015) 425)

ATP-synthase; Enzyme reconstitution; Activation; Enzyme kinetics; Uni-site catalysis (Fromme, P. (1016) 29)

pH-stat; Photosynthesis; Homeostasis (Wagner, U. (1016) 115)

Photosynthetic metabolism; Thylakoid membrane; Light harvesting complex; Electron transfer; Protein phosphorylation; (*Z. mays*) (Horton, P. (1017) 160)

Proton-translocating ATPase; ATP-synthase; ATPase; Reconstitution; Ion translocation (Grotjohann, I. (1017) 177)

Raman, transient; Carotenoid; Singlet ($2^1A_g^-$) state; (Spinach) (Hashimoto, H. (1017) 181)

ATPase, H^+-; Adenine nucleotide; Proton gradient; Enzyme regulation; Thiol modulation (Kleefeld, S. (1019) 11)

ATP-synthase; Electron microscopy; Image analysis (Boekema, E.J. (1020) 49)

ATPase, H^+-; CF_0F_1; Nucleotide binding site; Uni-site catalysis (Fromme, P. (1020) 187)

CF_1; ATPase; Sulfite; *N*-Ethylmaleimide; (Spinach) (Umbach, A.L. (1020) 278)

Protein synthesis; Elongation factor EF-Tu; mRNA content; Cell cycle; (*C. reinhardii*) (Breidenbach, E. (1048) 209)

Ribosomal protein; Gene clustering pattern; Protein sequence homology; Cyanobacterium; (*Synechocystis*) (Sibold, C. (1050) 61)

Ferredoxin : $NADP^+$ oxidoreductase; Light activation; Phosphoamino acid; Protein phosphorylation (Hodges, M. (1052) 446)

Chloroplast ATP synthase
Photophosphorylation; CF_0CF_1 reconstitution; Proteolipid; Rotational diffusion; Chemical modification (Apley, E.C. (1015) 29)

Chloroplast coupling factor
Epsilon subunit; Dithiothreitol; Subunit exchange; (*C. reinhardtii*) (Duhe, R.J. (1017) 70)

Chloroplast gene
Cell cycle; Gene regulation; Chloroplast transcription; Posttranscriptional control (Leu, S. (1049) 311)

Chloroplast isoenzyme
Glyceraldehyde-3-phosphate dehydrogenase (NADP); Complete primary structure; Structural relationship; (Spinach) (Ferri, G. (1041) 36)

Chloroplast orientation
Chlorophyll; Reaction center; Photosynthesis (Rutherford, A.W. (1019) 128)

Chloroplast transcription
Chloroplast gene; Cell cycle; Gene regulation; Posttranscriptional control (Leu, S. (1049) 311)

Chlororespiration
Chlorophyll fluorescence; Fluorescence induction; (*Mantoniella*); (Prasinophyceae) (Wilhelm, C. (1016) 197)

Chlorosome
Bacteriochlorophyll *c*; Energy transfer; Photosynthetic antenna; (*Chlorobium*); (*Chloroflexus*) (Matsuura, K. (1019) 233)

Cholate
Membrane vesicle; Anion exchange; Nonionic diffusion; Liposome; (Rat liver) (Caflisch, C. (1021) 70)

Cholate exchange
Diphosphatidylglycerol; Cardiolipin; Cardiolipin analog; Lysocardiolipin; Cytochrome *c*; Electrostatics (Abramovitch, D.A. (1020) 34)

Cholate transport
Methotrexate; Organic anion; Efflux; Drug efflux; Multidrug resistance (Henderson, G.B. (1051) 60)

Cholecystokinin
Gastrin-I; Receptor, C; (Guinea-pig stomach) (Sutliff, V.E. (1052) 9)

Internalization-sequestration; Cholecystokinin degradation; (Pancreatic acinar cell line AR 4-2 J) (Svoboda, M. (1055) 207)

Cholecystokinin degradation
Cholecystokinin; Internalization-sequestration; (Pancreatic acinar cell line AR 4-2 J) (Svoboda, M. (1055) 207)

Cholecystokinin receptor
Pancreatic acini; Lectin; (Rat) (Santer, R. (1051) 78)

Cholera toxin
Guanine nucleotide-binding protein; ADP-ribosylation; ADP-ribosylation factor; Adenylyl cyclase (Noda, M. (1034) 195)

Myelin basic protein; ADP-ribosylation (Enomoto, K. (1036) 188)

G-protein; Pertussis toxin; Phototransduction; Invertebrate photoreceptor; (Octopus) (Tsuda, M. (1052) 204)

Gastrin; G-protein; Inositol phosphate; Pertussis toxin; (Gastric parietal cell) (Roche, S. (1055) 287)

Cholestane spin label
Steroid; Dioleoylphosphatidylcholine; Digalactosyldiacylglycerol; Order parameter; Dynamics; Spin label (Korstanje, L.J. (1022) 155)

Cholesterol
ATPase, Ca^{2+}-; Enzyme–phospholipid interaction; 1-Palmitoyl-2-oleoylphosphatidylethanolamine; Lipid vesicle; Fourier transform infrared spectroscopy; DSC (Yang, J. (1021) 27)

Lindane; Phospholipid; Phase transition; Fluorescent probe; Membrane fluidity (Antunes-Madeira, M.C. (1022) 110)

Liposome; Gd-DTPA; Relaxivity; Water permeability; MR imaging; Magnetic resonance (Tilcock, C. (1022) 181)

Tumor; Metastatis; Sterol carrier protein; Fluorescence; Membrane fluidity (Kier, A.B. (1022) 365)

Mitochondrial inner membrane; Respiratory cytochrome; Cytochrome $P\text{-}450_{scc}$; Cardiolipin; (Pig ovary) (Holland, J.W. (1022) 401)

Cyclosporin A; NMR, ^2H-; Dipalmitoylphosphatidylcholine; Lipid–protein interaction (Wiedmann, T.S. (1023) 12)

Cesium ion; Myogenesis; Myoblast fusion; Phosphatidylethanolamine; Phosphatidylcholine; Phosphatidylinositol; Membrane lipid (Santini, M.T. (1023) 298)

DDT; Insecticide–membrane interaction; Fluorescence polarization; Fluorescent probe; Membrane fluidity (Antunes-Madeira, M.C. (1023) 469)

Dehydroergosterol; Synaptic plasma membrane; Ethanol; Membrane domain; Membrane asymmetry; Fluorescence (Wood, W.G. (1025) 243)

Nicotinic acetylcholine receptor; Fluorescence quenching; Spin label; ESR; (*Torpedo marmorata*) (Arias, H.R. (1027) 287)

Sphingomyelin; Sphingomyelinase; Cholesterol oxidase; Cholesterol transport; (Baby hamster kidney cell); (BHK-21 cell) (Slotte, J.P. (1030) 251)

CS-514; Apolipoprotein B; Apolipoprotein A-I; LDL; (Human hepatoblastoma cell line) (Sato, R. (1042) 36)

Paramyxovirus; Calmodulin antagonist; Cerulenin; Syncytia; Inhibitor of cholesterol synthesis; (Vero cell) (Malvoisin, E. (1042) 359)

Lipid transfer protein; (Human macrophage) (Faust, R.A. (1042) 404)

Bile acid synthesis; Chylomicron remnant; Chylomicron; (Cultured rat hepatocyte) (Fry, R.P. (1042) 413)

Diabetes; Bile acid; Phosphatidylcholine; Sex; (Rat) (Marin, J.J.G. (1043) 106)

Bile; Glycerophospholipid; Monensin; Membrane (Casu, A. (1043) 113)

Apolipoprotein A-IV; Lipid metabolism; Receptor; Reverse cholesterol transport; Membrane protein; (Rat liver) (Ghiselli, G. (1044) 173)

VLDL; Lipoprotein secretion; (Rat) (Khan, B.V. (1044) 297)

Cholesterol transport; LDL; U18666A; Ketoconazole (Liscum, L. (1045) 40)

Phosphatidylserine; Macrophage; Foam cell; Atherosclerosis (Greenspan, P. (1045) 94)

J774 macrophage; Foam cell; Cholesteryl ester; Lipid droplet; Phagocytosis; Lysosome; Acid cholesteryl ester hydrolase; ACAT (Mahlberg, F.H. (1045) 251)

Intralipid; Mesophase; Intravenous infusion; Lipoprotein; Lipoprotein X; (Rat) (Hajri, T. (1047) 121)

Peroxidation; Bilayer transfer; NMR, ^{2}H-; NMR, ^{31}P- (Barclay, L.R.C. (1047) 255)

HDL; Verapamil; (Human hepatocyte) (Chappey-Gillet, B. (1052) 273)

Cholesterol distribution
Cholesterol metabolism; Growth; (Human skin fibroblast) (Mazzone, T. (1047) 180)

Cholesterol efflux
HDL; Sphingomyelin degradation; Sphingomyelinase; (Human fibroblast) (Slotte, J.P. (1025) 152)

Cholesterol esterase
Boronic acid; Transition state; Acylenzyme mechanism; Inhibition (Sutton, L.D. (1041) 79)

HDL; Cholesterol ester metabolism; Adrenal; Lipid storage droplet; Steroidogenesis (Sparrow, C.P. (1043) 203)

Cholesterol esterification
Apolipoprotein A-I_{Milano}; Lecithin : cholesterol acyltransferase deficiency; (Human) (Franceschini, G. (1043) 1)

Normolipidemic serum; Cell specific association; Sterol synthesis; Atherosclerosis; (Human hepatoma cell line) (Swinkels, D.W. (1047) 212)

Cholesterol ester metabolism
HDL; Adrenal; Lipid storage droplet; Steroidogenesis; Cholesterol esterase (Sparrow, C.P. (1043) 203)

Cholesterol ester transfer activity
Apolipoprotein A-I; Fractional catabolic rate; HDL; Isoprotein; Rabbit; Turnover study (Ying, H. (1047) 247)

Cholesterol exchange
Red blood cell; HDL; LDL; Membrane lipid (Gold, J.C. (1027) 85)

Cholesterol heterogeneity
Erythrocyte; Lymphoma B cell; θ-Toxin; Cytolysin; *(C. perfringens)* (Ohno-Iwashita, Y. (1023) 441)

Cholesterol hydroperoxide
Phospholipid hydroperoxide; Lipoprotein hydroperoxide; Phospholipid hydroperoxide glutathione peroxidase (Thomas, J.P. (1045) 252)

Cholesterol 7α-hydroxylase
3-Hydroxy-3-methylglutaryl-CoA reductase; Squalene synthetase; (Pig) (Kwekkeboom, J. (1042) 146)

Bile acid; Cytochrome *P*-450; Postnatal development; (Pig hepatocyte) (Kwekkeboom, J. (1042) 386)

Cholesterol metabolism
Imipramine; Niemann-Pick disease type C; Skin fibroblast culture (Rodriguez-Lafrasse, C. (1043) 123)

Diet; Fat-rich diet; Blood lipoprotein; (Hamster liver); (Hamster aorta); (Hamster intestine) (Jackson, B. (1045) 21)

Bile acid; Biliary secretion; VLDL; LDL; HDL; (Rat liver) (Bravo, E. (1045) 74)

Acyl-CoA : cholesterol acyltransferase; Biliary secretion; Polyunsaturated fatty acid (Chautan, M. (1046) 40)

Enzyme activity; Murine dystrophy (Kuhn, D.E. (1046) 322)

Neutral cholesteryl ester hydrolase; Hormonal control; Enzyme regulation; Phosphorylation-dephosphorylation; (Rat mammary gland) (Martinez, M.J. (1047) 90)

Growth; Cholesterol distribution; (Human skin fibroblast) (Mazzone, T. (1047) 180)

Cholesterol oxidase
Sphingomyelin; Cholesterol; Sphingomyelinase; Cholesterol transport; (Baby hamster kidney cell); (BHK-21 cell) (Slotte, J.P. (1030) 251)

Cholesterol sulfate
Sperm; Acrosome reaction; Membrane fusion; Fertilization; Membrane destabilization (Cheetham, J.J. (1024) 367)

Cholesterol synthesis
Regulation; HMG-CoA reductase; Fatty acid oxidation; (Rat liver) (Jansen, H. (1044) 390)

Hydroxymethylglutaryl-CoA reductase; Hydroxymethylglutaryl-CoA reductase inhibitor; Pravastatin; Lovastatin; Simvastatin (Koga, T. (1045) 115)

LDL binding; Lymphocyte proliferation; (Human) (Owens, D. (1051) 138)

Cholesterol transport
Sphingomyelin; Cholesterol; Sphingomyelinase; Cholesterol oxidase; (Baby hamster kidney cell); (BHK-21 cell) (Slotte, J.P. (1030) 251)

Cholesterol; LDL; U18666A; Ketoconazole (Liscum, L. (1045) 40)

Cholesteryl ester
LDL, acetylated; Fluorescent label; Lipoprotein uptake; (Human monocytic cell line) (Suzuki, K. (1042) 210)

Cholesteryl ester hydrolase; Lipid inclusion (Lundberg, B.B. (1042) 301)

HDL; Lipoprotein uptake; Apolipoprotein A-I; (Human macrophage) (Rinninger, F. (1043) 318)

HDL; Hepatic transport; (Rabbit) (Wishart, R. (1044) 382)

J774 macrophage; Foam cell; Cholesterol; Lipid droplet; Phagocytosis; Lysosome; Acid cholesteryl ester hydrolase; ACAT (Mahlberg, F.H. (1045) 251)

DSC; X-ray diffraction (Dorset, D.L. (1046) 57)

Cholesteryl ester hydrolase
P388D_1 macrophage; cAMP-dependent protein kinase; Prostaglandin E_1 (Goldberg, D.I. (1042) 132)

Cholesteryl ester; Lipid inclusion (Lundberg, B.B. (1042) 301)

Cholesteryl ester metabolism
(Syrian hamster) (Ochoa, B. (1044) 133)

Cholesteryl ester selective uptake
HDL; HDL receptor; Apoprotein catabolism (Senault, C. (1046) 81)

Cholesteryl ester transfer activity
Hypercholesterolemia; Hypertriglyceridemia; (Hamster); (Rat); (Mouse) (Stein, Y. (1042) 138)

Cholesteryl ester transfer protein
HDL; VLDL; Hepatic lipase; (Human plasma) (Newnham, H.H. (1044) 57)

HDL conversion; Unesterified fatty acid (Barter, P.J. (1045) 81)

Sodium oleate; Triacylglycerol-rich lipoprotein (Barter, P.J. (1047) 294)

Cholesteryl ester transport
Apolipoprotein A-I; Apolipoprotein A-II; HDL binding; HDL subclasses; (Human hepatocyte) (Kilsdonk, E.P.C. (1045) 205)

Probucol; HDL (Chiesa, G. (1045) 302)

Cholesteryl ester uptake
HDL; LDL; Progesterone production; Endocytic pathway; Non-endocytic pathway; Rat ovarian cell (Azhar, S. (1047) 148)

Cholestyramine
7α-Hydroxycholesterol; Plasma; Hypercholesterolemia (Bascoul, J. (1044) 357)

Choline
Sphingosine; Ceramide; Sphingomyelin; Sphingolipid; Phospholipid; Serine; Palmitic acid; Protein kinase (Merrill, Jr., A.H. (1044) 1)

Energy metabolism; Phosphatidylcholine catabolism; (Sea urchin sperm) (Mita, M. (1047) 175)

Choline kinase
Molecular weight; Substrate specificity; Activator; (Rat brain) (Uchida, T. (1043) 281)

Choline-phosphate cytidylyltransferase
Fatty acid synthase; Glucocorticoid; Hormone action; Lung surfactant; (Fetal rat lung) (Xu, Z.-x. (1044) 70)

Glucocorticoid; Development; Hormone action; Phospholipid synthesis; Lung surfactant; (Fetal rat lung) (Rooney, S.A. (1044) 385)

Choline transport
Lipid bilayer membrane; Erythrocyte membrane; Anesthesia; *n*-Alcohol (Devés, R. (1030) 32)

Chondrocyte
Vitamin D-3; 1,25-Dihydroxyvitamin D-3; 24,25-Dihydroxyvitamin D-3; Phospholipid; Arachidonic acid turnover; Matrix vesicle (Schwartz, Z. (1027) 278)

Collagenase; Fetal bovine serum; Interleukin-1 (Kandel, R.A. (1053) 130)

Chondrocyte dedifferentiation
Collagen synthesis; Collagenase; Interleukin 1; Tissue inhibitor of metalloproteinase; (Rabbit cell) (Lefebvre, V. (1051) 266)

Chorion
Prostaglandin; Amnion; Labor (Lundin-Schiller, S. (1053) 151)

Chorionic gonadotropin
Gonadotropin; (Human); (Rat); (Testicle) (Browne, E.S. (1033) 226)

Chromaffin cell
ATP secretion; Calcium ion dependence; Kinetics; (Adrenal chromaffin cell) (Ceña, V. (1023) 213)

GABA; Calcium ion, cytosolic; Catecholamine release; Plasma membrane potential (Kitayama, S. (1053) 189)

Chromaffin granule
Lysis; Hyperosmotic relaxation lysis; Intragranular vesicle; Photon correlation spectroscopy; Freeze-fracture (Engel, J. (1028) 236)

Annexin; Synexin; Calelectrin; Exocytosis; Calcium ion binding protein (Zaks, W.J. (1029) 149)

Phospholipase A_2; Liposome; Lysosome; Adrenal medulla (Bartolf, M. (1029) 196)

Chromogranin A; Proteinase (Laslop, A. (1033) 65)

Phospholipase A_2; Lysosome; Exocytosis; (Bovine adrenal gland) (Bartolf, M. (1042) 247)

Chromatin structure
Chromosomal protein; Gene structure; DNA–protein interaction; High mobility group protein (Bustin, M. (1049) 231)

Chromatofocusing
Receptor purification; Nicotinic cholinergic receptor (Kapp, E.A. (1034) 29)

Aminoacyl-tRNA synthetase; Phosphorylation; Isoelectric point (Berg, B.H. (1038) 391)

Chromatophore
Proton storage; ATP synthesis; Chemiosmosis (Turina, M.P. (1018) 134)

Chromogranin A
Chromaffin granule; Proteinase (Laslop, A. (1033) 65)

Adenine nucleotide binding; Bis-ANS fluorescence (Yoo, S.H. (1040) 66)

Secretory granule; Hormone processing; Catecholamine; (Bovine chromaffin cell) (Simon, J.-P. (1051) 123)

Chromosomal protein
Protein conformation; (*M. barkeri*) (Imbert, M. (1038) 346)

Chromatin structure; Gene structure; DNA–protein interaction; High mobility group protein (Bustin, M. (1049) 231)

Chronic acidosis
Ammoniagenesis; NMR, ^{13}C-; GC-MS; Tricarboxylic acid cycle; (Renal tubule) (Nissim, I. (1033) 194)

Chronic ethanol
NMR, ^{31}P-; Metabolism; Energy charge; Anoxia (Ling, M. (1051) 151)

Chylomicron
Bile acid synthesis; Cholesterol; Chylomicron remnant; (Cultured rat hepatocyte) (Fry, R.P. (1042) 413)

Lipoprotein lipase; Free fatty acid; Apolipoprotein C-II; Triacylglycerol; (Endothelial cell) (Saxena, U. (1043) 161)

Very-low-density lipoprotein; Apolipoprotein; Nephrotic syndrome; Lipoprotein lipase; (Rat muscle); (Rat liver); (Rat adipose tissue) (Levy, E. (1043) 259)

Lipid metabolism; Monostearylglycerol; (Rat) (Mortimer, B.-C. (1046) 46)

Chylomicron metabolism
Arachidonic acid; Essential fatty acid deficiency; Linoleic acid; (Rat) (Hjelte, L. (1044) 101)

Chylomicron remnant
Hepatic lipase; Liver; Inhibition; (Rat) (Sultan, F. (1042) 150)

Bile acid synthesis; Cholesterol; Chylomicron; (Cultured rat hepatocyte) (Fry, R.P. (1042) 413)

Chymotrypsin
NMR, ^{19}F-; Diphenylcarbamoyl group; Acylchymotrypsin; Aromatic ring rotation; Exchange process; Active site; Covalent modification (Kairi, M. (1039) 157)

Peptide synthesis; Enzyme kinetics; β-Naphthylamide (Gololobov, M.Y. (1041) 71)

Proteinase; Subunit specificity; Diisopropylfluorophosphate; Enzyme subunit; Multifunctional enzyme; (Chicken liver) (Sato, S. (1041) 269)

α-Chymotrypsin
Calcium ion; Electrostatic effect; Preferential binding (Shearwin, K.E. (1038) 136)

Diisopropylphosphoryl-α-chymotrypsin; Self-association; Active site; Sedimentation; (Archibald) (Murthy, B.S.N. (1041) 285)

Cilium
Phosphatase; (*Paramecium*) (Klumpp, S. (1037) 233)

Guanylate cyclase; Olfaction; Trachea (Steinlen, S. (1054) 69)

Circular dichroism
Amphipathic β-structure; Lipid–peptide interaction; Tryptophan fluorescence; Liposome (Ono, S. (1022) 237)

Erythrocyte; Band 3 protein; Eosin-5-maleimide; Sulfate efflux; Cysteine residue; Exciton coupling (Chiba, T. (1025) 199)

Phospholipid vesicle; Ionophore; Lasalocid A; Lipid bilayer membrane (Grunwald, R. (1027) 245)

Apocytochrome *c*; Micelle; Vesicle; Lipid–protein interaction (De Jongh, H.H.J. (1029) 105)

Phospholipase A_2; Amino acid sequence; (*N. naja naja*) (Davidson, F.F. (1037) 7)

Legumin; Laser light scattering; Subunit dissociation; Protein unfolding (Chambers, S.J. (1037) 66)

Citrate synthase; Protein unfolding; Protein folding; Mitochondrial protein assembly (West, S.M. (1037) 332)

Sulfane sulfurtransferase; Rhodanese; Fluorescence spectroscopy; Fluorescence quenching; Second derivative absorption spectroscopy; Renaturation (Aird, B.A. (1038) 10)

Myoglobin; Autoxidation; (*T. obesus*) (Kitahara, Y. (1038) 23)

NMR, ^{13}C-; Peptide folding; Proline configuration; NMR, ^{1}H- assignment; Ribonuclease fragment (Jiménez, M.A. (1038) 322)

β-Endorphin; Proteolysis; Surfactant; Lipid; (Human) (Pasta, P. (1039) 1)

Angiotensin converting enzyme; Guanidine denaturation; Fluorescence; Inactivation kinetics (Chen, L.-Y. (1039) 61)

Ovalbumin, succinylated and acetylated; Lysine modification; Secondary structure; Urea; pH; Guanidine hydrochloride (Batra, P.P. (1040) 102)

Flavodoxin; Ferredoxin-$NADP^+$-reductase (Fillat, M.F. (1040) 301)

***Cis*-acting sequence**
GCN4 expression; Translational control; (*S. cerevisiae*) (Miller, P.F. (1050) 151)

Cisplatin
Cyclohexanediamineplatinum(II); ELISA; DNA cross-linking; Platinum-DNA adduct (Yamada, H. (1049) 298)

Citrate-Sepharose affinity
ATP:citrate lyase; Fatty acyl-CoA ester; (*Rhodotorula*) (Shashi, K. (1033) 23)

Citrate synthase
Protein unfolding; Protein folding; Circular dichroism; Mitochondrial protein assembly (West, S.M. (1037) 332)

Clara cell 10 kDa protein
Immunohistochemistry; Phospholipase A_2 inhibitor; Proteinase inhibitor; Progesterone binding; Antiinflammatory activity (Singh, G. (1039) 348)

Class II major histocompatibility complex
Interferon γ; α_2-Macroglobulin; Antigen expression; Antigen, Ia- (Roche, P.A. (1051) 166)

Clathrin
Coated vesicle; Lipid–protein interaction; ESR; Spin label; (Bovine brain) (Privat, J.-P. (1023) 274)

Clofibrate
Artificial membrane; Ligand binding; Pressure effect; Fourier transform infrared spectroscopy (Philp, R.B. (1021) 91)

Fatty acid binding protein; Peroxisomal enzyme; Peroxisome proliferation; Bezafibrate; (Cultured rat hepatocyte) (Brandes, R. (1034) 53)

Dihydroxyacetone phosphate; Glycerol 3-phosphate; Phospholipid; Di(2-ethylhexyl)phthalate; Peroxisome; (Rat liver) (Horie, S. (1042) 294)

Cell culture; Peroxisomal β-oxidation; Triiodothyronine; (Hepatocyte) (Shoemaker, R.L. (1044) 169)

Cloned DNA
α-Amylase; Gene expression; Restriction enzyme map; Promoter region; (*Bacillus circulans* DNA); (*E. coli*) (Kim, C.-H. (1048) 223)

Cloning
Plasminogen; Carbohydrate; (*E. coli*); (Human) (Gonzalez-Gronow, M. (1039) 269)

Lipase; Regulatory sequence; Gene expression; Liver (Sensel, M.G. (1048) 297)

Clostripain
Proteolytic digestion; Elongation factor 1β; Elongation factor 1δ; Nucleotide exchange domain; Papain (Van Damme, H.T.F. (1050) 241)

Cluster
Association probability; Linear molecule; Monolayer; Amphiphile (Popescu, D. (1030) 238)

CNDO
Anthraquinone; Molecular orbital calculation; Quinone binding protein; Photosystem II (Karukstis, K.K. (1020) 169)

CNPase
Myelin; Lipid peroxidation; ATPase, Na^+/K^+-; 5′-Nucleotidase; (Shiverer mice); (Mouse brain) (Domanska-Janik, K. (1034) 200)

Coagulation
Collagen; Procoagulant activity; Platelet activation (Kawamoto, Y. (1035) 361)

Coated vesicle
Clathrin; Lipid–protein interaction; ESR; Spin label; (Bovine brain) (Privat, J.-P. (1023) 274)

Coat protein
Bacteriophage M13; Spin label; Saturation transfer ESR; ESR (De Jongh, H.H.J. (1024) 82)

Cobalamin
Methionine; Methylthioribose; Formate; Purine (Deacon, R. (1034) 342)

Cobalt-substituted hemoprotein
Hydrated electron; Oxygenated form (Kobayashi, K. (1037) 297)

Coding region
Mitochondrial $tRNA^{Pro}$; Recombination; (Maize); (Wheat) (Sangaré, A. (1049) 96)

Codon preference
Major codon; tRNA isoacceptor; Amino acid composition; (*E. coli*) (Emilsson, V. (1050) 248)

Codon usage
Proteinase inhibitor; *Streptomyces* subtilisin inhibitor gene; SSI gene; Secretory expression; Signal peptide processing; (*Streptomyces*) (Taguchi, S. (1049) 278)

Coenzyme–enzyme interaction
Molecular modelling; NAD^+; NAD^+ analog; AMBER; Enzyme kinetics (Beijer, N.A. (1039) 227)

Cofactor
Vitamin K; Vitamin K dependent carboxylase; Blood coagulation; 4-Carboxyglutamic acid (Buitenhuis, H.C. (1034) 170)

Cold
Lipoprotein lipase; Brown adipose tissue; mRNA level; Lactation; Noradrenaline (Giralt, M. (1048) 270)

Cold adaptation
Brown adipose tissue; Mitochondrion; Essential fatty acid deficiency; Energization parameter; Proton conductance (Goubern, M. (1015) 334)

Brown adipose tissue; Phospholipid composition; Fluidity; Mitochondrion; Essential fatty acid deficiency; Thermogenic activity; Fluorescence polarization; Time resolved fluorescence anisotropy (Senault, C. (1023) 283)

Cold exposure
Brown adipose tissue; Alanine; Starvation; Insulin; Noradrenaline; (Rat) (López-Soriano, F.J. (1036) 6)

Cold stress
D_1-protein degradation; Photoinhibition; Photosystem II; Proteinase; Thylakoid membrane dynamics; Protein degradation (Aro, E.-M. (1019) 269)

Glutathione; γ-Glutamyltransferase; Exercise; (Rat liver) (Ohno, H. (1033) 19)

Colipase
Lipase; Carboxyl ester lipase; Icosapentaenoic acid; Arachidonic acid; (Fish oil) (Chen, Q. (1044) 111)

Collagen
Macromolecule synthesis; Macromolecule characterization; Proteoglycan; Hyaluronate; Hexuronate; (Collateral ligament) (Hey, N.J. (1034) 73)

Fibroblast; Hyaluronidase; Proteoglycan; Scoliosis (Lien, Y.-H. (1034) 318)

Procoagulant activity; Platelet activation; Coagulation (Kawamoto, Y. (1035) 361)

Invertebrate; Antibody; Collagen typing; (Sea urchin); (Echinoderm) (Shimizu, K. (1038) 39)

Articular cartilage; Osteoarthritis; (Human) (Ronzière, M.-C. (1038) 222)

Fibroblast; mRNA; recombinant DNA; Polymorphism (Mäkelä, J.K. (1049) 171)

Platelet; Mural thrombogenesis; Antiplatelet agent; Nipecotoylpiperazine (Owens, C.K. (1052) 351)

Platelet activation; Sodium-proton exchanger; Protein kinase C; Secretion (Joseph, S. (1054) 26)

Collagen synthesis
Chondrocyte dedifferentiation; Collagenase; Interleukin 1; Tissue inhibitor of metalloproteinase; (Rabbit cell) (Lefebvre, V. (1051) 266)

Collagenase; Tissue inhibitor of metalloproteinase; Interleukin-1; Tumor necrosis factor α; (Rabbit articular chondrocyte) (Lefebvre, V. (1052) 366)

Kidney damage; Mesangial cell; mRNA (Ohyama, K. (1053) 173)

Collagen type VI
Extracellular matrix; Leiomyoma; (Human skin) (Wegrowski, J. (1039) 189)

Collagen typing
Collagen; Invertebrate; Antibody; (Sea urchin); (Echinoderm) (Shimizu, K. (1038) 39)

Collagen V
Primary structure; Heparin binding site (Yaoi, Y. (1035) 139)

Collagenase
Tissue inhibitor; Synovial fluid; α_2-Macroglobulin; Metalloproteinase; Proteinase inhibitor complex (Cawston, T. (1033) 96)

Chondrocyte dedifferentiation; Collagen synthesis; Interleukin 1; Tissue inhibitor of metalloproteinase; (Rabbit cell) (Lefebvre, V. (1051) 266)

Tissue inhibitor of metalloproteinase; Collagen synthesis; Interleukin-1; Tumor necrosis factor α; (Rabbit articular chondrocyte) (Lefebvre, V. (1052) 366)

Chondrocyte; Fetal bovine serum; Interleukin-1 (Kandel, R.A. (1053) 130)

Collagenase inhibitor
Antitumor; Anthracycline antibiotic (Karakiulakis, G. (1035) 218)

Colon cancer
Procarcinogen; Premalignant; Malondialdehyde; Pigment, lipofuscin-like (Dudeja, P.K. (1046) 267)

Colony autoradiography
Glucose transporter; Cell mutant; Tritium suicide; (Chinese hamster ovary cell) (Hasegawa, K. (1051) 221)

Colony stimulating factor
Receptor; Hemopoietic cell (Péléraux, A. (1055) 141)

Comparison
Creatine kinase; Isozyme; Conformation; (Rabbit brain); (Rabbit muscle) (Grossman, S.H. (1040) 311)

Compensatory renal growth
ATPase, Ca^{2+}-; Sodium–calcium ion exchanger; Basal-lateral plasma membrane; (Kidney) (Hadžić, A. (1022) 265)

Competitive inhibition
Enzyme inhibition; Phospholipase A_2; Substrate-derived inhibitor (De Haas, G.H. (1046) 249)

Myo-inositol uptake; Hyperglycemia; Diabetic angiopathies; Sorbinil; (Porcine aortic endothelial cell) (Olgemöller, B. (1052) 47)

Competitive inhibitor
Lipolytic enzyme; Phospholipase; Lipase; Kinetic model; Enzyme kinetics, heterogeneous (Ransac, S. (1043) 57)

Complementary strand
Bacteriophage α3; Origin mutant; Deletion/insertion; *dna* factor; DNA sequence (Nakano, K. (1048) 43)

Complete primary structure
Glyceraldehyde-3-phosphate dehydrogenase (NADP); Chloroplast isoenzyme; Structural relationship; (Spinach) (Ferri, G. (1041) 36)

Complex type oligosaccharide
N-Acetylglucosaminyltransferase IV; Oligosaccharide, N-linked; Lectin chromatography; Chick embryo development. (Ogier-Denis, E. (1054) 149)

Compound 48/80
Calcium pump; ATPase, (Ca^{2+} + Mg^{2+})-; Ruthenium red; Polyphosphoinositide; (Smooth muscle plasma membrane) (Missiaen, L. (1023) 449)

ATPase, Ca^{2+}-; Calcium pump; Calmodulin (Caride, A.J. (1027) 21)

Compound II
Myeloperoxidase; Chlorinating activity; Ascorbic acid; 5-Aminosalicylic acid (Zuurbier, K.W.M. (1037) 140)

Computer simulation
Cotransport model; Isotope tracer; Membrane vesicle (Andrietti, F. (1024) 373)

Protein synthesis; Accuracy; Elongation factor; aminoacyl tRNA; Stringent response (Pingoud, A. (1050) 252)

Concanavalin A
Lipopolysaccharide; Agglutinin, peanut; Membrane capacity; Membrane conductivity; Surface conductance; Electrorotation (Hu, X. (1021) 191)

Proton-translocating ATPase; ATPase; Membrane protein; Aggregation state; Two-dimensional crystal; Acridine orange; Vanadate (Huang, L.-s. (1039) 241)

Cytoplasmic calcium ion; Sodium ion–proton exchange; (Rat thymocyte) (Gukovskaya, A.S. (1051) 242)

Superoxide anion; Membrane glycoprotein; Cell differentiation; (4937 cell line) (Balsinde, J. (1052) 90)

Conditional expression
Helicase; CAP binding complex; Temperature sensitive mutation; Mutation; (*S. cerevisiae*) (Prat, A. (1050) 140)

Conductance
Isoproterenol; Apical membrane; Basolateral membrane; Microelectrode; (Frog skin) (Granitzer, M. (1029) 185)

Conducting pore
Planar lipid membrane; Mixed monolayer; Antifungal lipopeptide; Iturin; Mycosubtilin (Maget-Dana, R. (1023) 34)

Conformation
Creatine kinase; Isozyme; Comparison; (Rabbit brain); (Rabbit muscle) (Grossman, S.H. (1040) 311)

Immunocytokine; Secondary structure; Domain; Homology; Active site (Zav'yalov, V.P. (1041) 178)

Conformational analysis
Phosphatidylinositol; NMR, ^{1}H-; Phospholipid (Bushby, R.J. (1044) 231)

Conformational averaging
DNA structure; NMR (Lane, A.N. (1049) 189)

Conformational change
Purple membrane; 13-*cis*-Bacteriorhodopsin; all-*trans*-Bacteriorhodopsin; Neutron diffraction (Dencher, N.A. (1026) 51)

Cytochrome *c*; Polyanion binding; Resonance Raman (Hildebrandt, P. (1040) 175)

Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Fluorescent probe; Thiol reagent; Substrate binding; Enzyme reaction mechanism (Kubo, K. (1040) 251)

Conformational dynamics
Coupling factor; Photophosphorylation; Spin labeling; ESR; CF_1 (Gantchev, T. (1015) 69)

Conformational plasticity
Butyrylcholinesterase; Stopped-flow fluorimeter; Electrophoresis; Solvent effect (Masson, P. (1041) 223)

Conservative inhibitor
Acid formation; Acid secretion dynamics; Acid secretion inhibition; Acid storage pool; Potassium; Index of conservation; Proton translocation; Transient response (Ekblad, E.B.M. (1054) 41)

Conserved motif
Yeast; ATPase, H^{+}-; Directed mutagenesis; Mechanism; Regulation (Serrano, R. (1018) 195)

Conserved region, Gly-18 to Met-57
ATP-synthase; Subunit c; Antibody, peptide-specific polyclonal; (*E. coli*) (Hensel, M. (1016) 63)

Contact site
Creatine kinase; Mitochondrial membrane; Electron microscopy; (Rat) (Biermans, W. (1018) 225)

Mitochondrion; Membrane, inner, outer; Hexokinase I; Creatine kinase; Energy transfer; NMR, ^{31}P-; (Rat liver) (Nicolay, K. (1018) 229)

Mitochondrion; Membrane transport (Brdiczka, D. (1018) 234)

Mitochondrion; Protein import; Protein unfolding (Pfanner, N. (1018) 239)

Context
Nucleotide sequence; Nonsense codon; *trpA* mutant suppression; Base change; (Bacteria) (Buckingham, R.H. (1050) 259)

Context effect
Frameshifting efficiency; Release factor-2 (Donly, C. (1050) 283)

Control theory
Mitochondrion; Oxidative phosphorylation; Membrane permeability; Proton conductance; Thyroid hormone (Brand, M.D. (1018) 128)

Cooperativity
ATPase, F_1-; Azide inhibition; ATPase inhibitor protein; (Chloroplast) (Andralojc, P.J. (1016) 55)

Lipid membrane; Phase transition; Volatile anesthetic; Anesthetic–lipid interaction (Suezaki, Y. (1029) 143)

Copper
Oxidase; Respiration; Heme; (FTIR) (Chepuri, V. (1018) 124)

Ascorbic acid; 2-Imidazolethione; Oxidation (Smith, R.C. (1034) 263)

Polyunsaturated fatty acid; α-Tocopherol; Whole blood; Hemolysis; (Human plasma) (Chahboun, S. (1042) 324)

Copper center
Cytochrome *c* oxidase; Heme *a*; Redox potentiometry; Cyanide (Moody, A.J. (1015) 205)

Copper enzyme
Dopamine β-hydroxylase; Allostene inhibitor; Enzyme inhibition (Townes, S. (1037) 240)

Copper(II) ion
Oxygenation; 1-Methylhistidine; Anserine; Ascorbate (Uchida, K. (1034) 347)

Copper ion
LDL; Oxidation; Free radical; Lipoxygenase; ESR (Kalyanaraman, B. (1035) 286)

Copper removal
Tyrosinase; Cyanide; Binuclear copper site (Beltramini, M. (1040) 365)

Core particle
Histone; Fluorescent labeling; Polyglutamic acid; Reconstitution (Lindsey, G.G. (1049) 9)

Corneocyte
Stratum corneum; Liposome; Cell envelope (Abraham, W. (1021) 119)

Corpus luteum
$NADP^+$ dependent isocitrate dehydrogenase; Protein purification; Protein blotting; Western blotting; (ovary) (Jennings, G.T. (1034) 219)

Corrinoid
Methanogenesis; ESR; Carbon monoxide dehydrogenase; Methylreductase (Krzycki, J.A. (1015) 53)

Corticosteroid
Mineralocorticoid receptor; RU 26752; R 5020; Hormone receptor; (Rat myocardium) (Lazar, G. (1033) 41)

Corticosterone
Fish; Cortisol; 17β-Oestradiol; Zinc; Metablothionein mRNA; Gene expression (Olsson, P.-E. (1049) 78)

Cortisol
Fish; Corticosterone; 17β-Oestradiol; Zinc; Metablothionein mRNA; Gene expression (Olsson, P.-E. (1049) 78)

Cosolubilization
Membrane lipid; Lipid extraction; CHAPS; Serotonin $5\text{-}HT_{1A}$ (Banerjee, P. (1044) 305)

COS-7 renal cell
Expression mammalian cell; Sodium ion/glucose cotransporter; Lipofection; Glucose transporter; Gene expression; Expression vector; DNA transfection; (Simian kidney cell, COS-7) (Birnir, B. (1048) 100)

COSY, two-dimensional
Monomeric insulin mutant; NMR, ^1H-; Sequence-specific assignment; Insulin; (Human) (Roy, M. (1053) 63)

Cotransport
Proton transport; Melibiose efflux; pH dependence; Lactose carrier mutant; *lacY*; Transport energetics (King, S.C. (1022) 373)

Cotransport model
Computer simulation; Isotope tracer; Membrane vesicle (Andrietti, F. (1024) 373)

Cotton
Catalase; cDNA clone; Amino acid sequence; Nucleotide sequence (Ni, W. (1049) 219)

Amino acid sequence; cDNA; Isocitrate lyase; Nucleotide sequence (Turley, R.B. (1049) 223)

Coupling factor
Photophosphorylation; Spin labeling; ESR; CF_1; Conformational dynamics (Gantchev, T. (1015) 69)

Coupling, physiological
Hierarchical control theory; Dynamical coupling (Westerhoff, H.V. (1018) 142)

Covalent enzyme adduct
Binding assay; Thymidylate synthase; Acid precipitation assay; Enzyme mechanism; Cancer chemotherapy (Cisneros, R.J. (1039) 149)

Covalent modification
Chymotrypsin; NMR, ^{19}F-; Diphenylcarbamoyl group; Acylchymotrypsin; Aromatic ring rotation; Exchange process; Active site (Kairi, M. (1039) 157)

C protein
HnRNP; DNA binding; Helix-loop-helix; Helix-turn-helix; (Rat) (Sharp, Z.D. (1048) 306)

C-reactive protein
Phosphorylcholine binding protein; Platelet (Randell, E. (1034) 281)

Creatine kinase
Contact site; Mitochondrial membrane; Electron microscopy; (Rat) (Biermans, W. (1018) 225)

Mitochondrion; Contact site; Membrane, inner, outer; Hexokinase I; Energy transfer; NMR, ^{31}P-; (Rat liver) (Nicolay, K. (1018) 229)

NMR, ^{31}P-, saturation transfer; Radioisotope exchange; Substrate-enzyme complex; Rate determining step (Kupriyanov, V.V. (1020) 290)

Isozyme; Modified subunit; Functional unit; (Rabbit muscle); (Rabbit brain) (Wang, X.-C. (1039) 313)

Protein folding; Monoclonal antibody; Epitope mapping; Catalytic site (Morris, G.E. (1039) 318)

Energy transfer; Brain isozyme; Fluorescence (Grossman, S.H. (1040) 276)

Isozyme; Conformation; Comparison; (Rabbit brain); (Rabbit muscle) (Grossman, S.H. (1040) 311)

Dimethyl suberimidate; Crosslinking; Thermal stability; (Bovine heart) (Sheehan, H. (1041) 141)

Developmental regulation; mRNA; (Rat) (Trask, R.V. (1049) 182)

NMR, ^{31}P-; Energy transport; Shuttle; Diffusion; (Frog skeletal muscle) (Yoshizaki, K. (1051) 144)

***p*-Cresol**
Catecholamine biosynthesis; Dopamine β-hydroxylase; Mechanism-based inhibitor; Enzyme inactivation; Active site peptide (Southan, C. (1037) 256)

Critical cell volume
Osmotic fragility; Spectrin; ATP level; (Bovine erythrocyte) (Mosior, M. (1022) 355)

Crossed affinity immunoelectrophoresis
Erythrocyte membrane protein; Autoantibody; Membrane protein; (Human) (Heegaard, N.H.H. (1023) 239)

Cross-inhibition analysis
Amino acid transport; Basal membrane vesicle; (Human placenta) (Kudo, Y. (1021) 169)

Crosslink
ATPase, H^+/K^+-; $C_{12}E_8$; Glutaraldehyde; Subunit; Soluble enzyme (Rabon, E.C. (1039) 277)

Crosslinking
Lens; Calpain; Transglutaminase; Proteolysis (Velasco, P.T. (1040) 187)

Creatine kinase; Dimethyl suberimidate; Thermal stability; (Bovine heart) (Sheehan, H. (1041) 141)

Cross polarization / magic angle spinning
Dipalmitoylphosphatidylcholine; Lysophosphatidylcholine; Interdigitated bilayer; NMR; DSC (Wu, W. (1026) 225)

Crossreacting determinant
Acetylcholinesterase; Anti-CRD antibody (Jäger, K. (1039) 367)

Cross-reactive antigen
Serotype polysaccharide; (*S. sobrinus*) (Takada, K. (1033) 273)

Cross-reconstitution
ATPase, F_1-; ATP-synthase; Oligomycin sensitivity; Mitochondrion; (Plant) (Norling, B. (1015) 49)

Crotoxin
Primary structure; B-chain; Neurotoxin; (*C. durissus terrificus*) (Aird, S.D. (1040) 217)

Cruzipain
Cysteine proteinase; Substrate specificity; Urea activation; (*Trypanosoma cruzi*) (Cazzulo, J.J. (1037) 186)

Cryptic
Lipoxygenase; Calcium; Leukotriene; Mast cell (Vonakis, B.M. (1045) 142)

Crystallization
cAMP-dependent protein kinase; Catalytic subunit; Stabilization; Purification; (Bovine heart) (Okuno, S. (1038) 204)

Crystallography, ribosome
Protein biosynthesis; mRNA; tRNA; Active complex (Hansen, H.A.S. (1050) 1)

Crystal structure
Electron diffraction; Lamellar repeat period; Phospholipid bilayer (Dorset, D.L. (1028) 299)

CS-514
Cholesterol; Apolipoprotein B; Apolipoprotein A-I; LDL; (Human hepatoblastoma cell line) (Sato, R. (1042) 36)

CTP
ATPase, Na^+/K^+-; Potassium phosphatase; ATP; Carbamyl phosphate; Oligomycin (Guerra, M. (1023) 73)

CTP:cholinephosphate cytidylyltransferase
Actin; Cytoskeletal interaction; Poly(ethyleneglycol); Enzyme activation; (Human lung) (Hunt, A.N. (1043) 19)

Cubic phase
Fatty acid; Spin label; Hexagonal H_{II} phase; ESR; NMR, ^{31}P- (Rama Krishna, Y.V.S. (1024) 89)

Hexagonal H_{II} phase; Fatty acid; Phospholipid bilayer; NMR, ^{2}H-; X-ray diffraction (Heimburg, T. (1025) 77)

Current-voltage relationship
Lipid bilayer; Pore, aqueous (Francis, J.W. (1025) 10)

Cyanide
Cytochrome *c* oxidase; Heme *a*; Copper center; Redox potentiometry (Moody, A.J. (1015) 205)

Tyrosinase; Binuclear copper site; Copper removal (Beltramini, M. (1040) 365)

Cyanide binding
Manganese(III)heme; Reconstitution; Horseradish peroxidase; Thiocyanate binding; NMR, ^{15}N- (Modi, S. (1038) 164)

Cyanine dye
Energy transfer; Fluorescence quenching; *n*-(g-Anthroyloxy) fatty acid probe (Faria, J.L. (1026) 133)

Cyanobacterial toxin
Peptide toxin; Transport; Microcystin; Bile acid; (Mouse cell); (Human cell) (Eriksson, J.E. (1025) 60)

Cyanobacterium
Photosynthesis; State I–state II transition; (*Anacystis nidulans*) (Williams, W.P. (1015) 121)

Photosynthesis; State transition; Fluorescence decay; Photosystem II; Phycobilisome; (*Synechococcus* sp.) (Mullineaux, C.W. (1015) 231)

Photoinhibition; Photosystem II; D_1 protein; (*Synechocystis* 6714) (Kirilovsky, D. (1020) 87)

Hydroxylamine dismutase; Nitrite formation; Ammonia formation; Hydrogen peroxide; (*P. uncinatum*) (Bagchi, S.N. (1041) 9)

Ribosomal protein; Gene clustering pattern; Protein sequence homology; Chloroplast; (*Synechocystis*) (Sibold, C. (1050) 61)

Cyclic voltammetry
Diaphorase; Electron transfer; Electron mediator; Digital simulation (Matsue, T. (1038) 29)

Cyclin
Nuclear antigen; Antigen distribution; Embryogenesis; *String* gene; (*Drosophila*) (Gay, N.J. (1049) 249)

Cyclodextrin
Hydrolysis; Maltooligosaccharide; Polysaccharide; (*B. sphaericus*) (Oguma, T. (1036) 1)

Cyclohexanediamineplatinum(II)
Cisplatin; ELISA; DNA cross-linking; Platinum-DNA adduct (Yamada, H. (1049) 298)

Cycloheximide
Staurosporine; Tumor promoter; Prostaglandin E_2; Arachidonic acid; Phorbol ester; (Rat peritoneal macrophage) (Watanabe, M. (1047) 141)

Fish cell; Gene expression; mRNA; Heavy metal; Primer extension; Actinomycin-D; Transcriptional control (Zafarullah, M. (1049) 318)

ω-Cyclohexyl fatty acid
Infrared spectroscopy; Elevated pressure; Lipid; Barotropic phase behavior; FTIR (Hübner, W. (1027) 229)

Cyclooxygenase
Cell differentiation; Arachidonic acid metabolism; Icosanoid; Phospholipase A_2; (Human U937 cell line) (Koehler, L. (1042) 395)

Cyclosporin A
Indo-1; Quin2; Membrane potential; (Human lymphoid cell lines); (Mouse thymocytes) (Vereb, Jr., G. (1019) 159)

NMR, ^{2}H-; Dipalmitoylphosphatidylcholine; Lipid–protein interaction; Cholesterol (Wiedmann, T.S. (1023) 12)

Cysteine
Xylanase; Tryptophan; Chemical modification (Deshpande, V. (1041) 172)

L-Cysteine
Pyruvate kinase; Isoenzyme; Tumor; Fatty acid; (Mouse liver); (Mouse skeletal muscle) (Kędryna, T. (1039) 130)

Cysteine proteinase
Cruzipain; Substrate specificity; Urea activation; (*Trypanosoma cruzi*) (Cazzulo, J.J. (1037) 186)

Cysteine residue
Erythrocyte; Band 3 protein; Eosin-5-maleimide; Sulfate efflux; Circular dichroism; Exciton coupling (Chiba, T. (1025) 199)

Mercury electrode surface; Protein kinase C; Phorbol ester; Phospholipase A_2 (Lester, D.S. (1039) 33)

Cytidylyltransferase
Okadaic acid; NaF; Enzyme translocation; (Rat liver) (Hatch, G.M. (1042) 374)

Cytidylyltransferase
Phosphatidylcholine; Fetal lung maturation; (Rat) (Feldman, D.A. (1045) 49)

Cytochrome
Photosynthesis; Reaction center; Charge recombination; Electron transfer; (*Rps. viridis*) (Gao, J.-L. (1015) 96)

Cytochrome aa_3
Nitric oxide; Nitrite reductase; Aqueous solution; (*P. denitrificans*) (Carr, G.J. (1017) 57)

Cytochrome *b*-559
Electron transfer; Flash spectroscopy; Photosystem II; Reaction center; P680 (Satoh, K. (1016) 121)

Brown adipose tissue mitochondria; Electron transport; Hydrogen peroxide generation; Basal metabolic rate (Gaikwad, A.S. (1017) 242)

Cytochrome bc_1
β-Methoxyacrylate; Photoaffinity labeling; Protein binding site (Mansfield, R.W. (1015) 109)

ESR; Iron-sulfur cluster; Ubisemiquinone radical; Redox state; (*Rh. sphaeroides*) (McCurley, J.P. (1020) 176)

Cytochrome bc_1 complex
Genetic control; Mitochondrion; Ubiquinol-cytochrome *c* oxidoreductase; (Yeast) (Schmitt, M.E. (1018) 119)

Ubiquinol; Electron transfer; Proton transfer (Konstantinov, A.A. (1018) 138)

Cytochrome *c* oxidase; Quarternary structure; Laser light scattering; (Thermophilic bacterium PS3) (Sone, N. (1020) 207)

Cytochrome *c*
Cytochrome *c* oxidase; Kinetics (Garber, E.A.E. (1015) 279)

Reaction center; Low temperature photooxidation; Electron tunneling; Electron transfer mechanism; (*Rps. viridis*) (Kaminskaya, O. (1016) 153)

Flavocytochrome b_2; Semiquinone; Electron exchange; Stopped-flow kinetics (Janot, J.-M. (1016) 165)

Cytochrome *c*-549
Low potential cytochrome; (*A. nidulans*) (Hoganson, C.W. (1016) 203)

Yellow protein; Phototrophic bacterium; Electron transfer protein; (*R.* salexigens) (Meyer, T.E. (1016) 364)

Bacteriopheophytin; Phototrapping; Reduced intermediate; Reaction center; (*Ectothiorhodospira* sp.) (Mar, T. (1017) 112)

Electron transfer protein; Ferredoxin; Halophile; Purple bacterium; (*R. salinarum*) (Meyer, T.E. (1017) 118)

Electron transfer protein; Ferredoxin; Purple bacterium; Yellow protein; (*Rps. marina*) (Meyer, T.E. (1017) 125)

Cytochrome oxidase; Kinetics; Electron transport; Proton translocation; Mitochondrion (Cooper, C.E. (1017) 187)

Photosynthetic bacterium; Electron transport; (*R. capsulatus*) (Jones, M.R. (1019) 59)

Cytochrome c_1
cDNA; Processing; Cell free translation; Matrix proteinase; (Human) (Tanaka-Yamamoto, T. (1019) 257)

Diphosphatidylglycerol; Cardiolipin; Cardiolipin analog; Lysocardiolipin; Electrostatics; Cholate exchange (Abramovitch, D.A. (1020) 34)

Polyanion binding; Conformational change; Resonance Raman (Hildebrandt, P. (1040) 175)

Cytochrome *c*; Fatty acid titration
Myelin basic protein; Apocytochrome *c*; Spin label; ESR (Sankaram, M.B. (1021) 63)

Cytochrome *c* oxidase
Heme *a*; Copper center; Redox potentiometry; Cyanide (Moody, A.J. (1015) 205)

Cytochrome *c*; Kinetics (Garber, E.A.E. (1015) 279)

Brown fat tissue; Subunit structure; Amino acid sequence; Tissue-specific expression; Immunoassay; (Rat) (Kadenbach, B. (1015) 368)

Plant mitochondrion; Proton ejection; Membrane conductance (De Virville, J.D. (1015) 464)

Mitochondrial dysfunction; Genome mutation (Ewart, G. (1018) 223)

Mitochondrion; Myopathy, mitochondrial; Oxidative phosphorylation; Enzymology; NADH dehydrogenase (Zheng, X. (1019) 1)

Cytochrome bc_1 complex; Quarternary structure; Laser light scattering; (Thermophilic bacterium PS3) (Sone, N. (1020) 207)

Fatty acid oxidation; Di(ethylhexyl)phthalate; Carnitine palmitoyltransferase; (Rat peroxisome) (Reubsaet, F.A.G. (1047) 264)

Cytochrome *c* peroxidase
Hydrogen peroxide; Mutant cytochrome *c* peroxidase (Vitello, L.B. (1038) 90)

Cytochrome *f*
Plastocyanin; Chemical modification; (Spinach) (Gross, E.L. (1016) 107)

Cytochrome *f* photooxidation
Photosystem I; Excitation energy distribution; Light state transition; P700 photooxidation; (Red algae) (Rehm, A.M. (1016) 127)

Cytochrome oxidase
Mitochondrial membrane; Ethanol consumption; Steady state kinetics; (Rat liver) (Thayer, W.S. (1016) 333)

Cytochrome *c*; Kinetics; Electron transport; Proton translocation; Mitochondrion (Cooper, C.E. (1017) 187)

Respiratory chain; Bacteroid; Hemoprotein *b*-590; (*R. leguminosarum*); (*R. lupini*) (Williams, H.D. (1019) 225)

Organic solvent; Spectroscopy; Enzyme kinetics; Micelle (Bona, M. (1020) 94)

Cytochrome *P*-450$_{scc}$
Mitochondrial inner membrane; Respiratory cytochrome; Cardiolipin; Cholesterol; (Pig ovary) (Holland, J.W. (1022) 401)

Monooxygenase; White matter; (Rat brain) (Iwahashi, K. (1035) 182)

Pyrazole; Aniline; Oxidation; (Rat hepatocyte) (Dicker, E. (1035) 249)

Lauric acid hydroxylase; Starvation; (Rat renal microsome) (Imaoka, S. (1036) 18)

ent-Kaurene oxidase; Enzyme solubilization; Paclobutrazol; (*G. fujikuroi*) (Ashman, P.J. (1036) 151)

Molecular substitution; Polychlorinateded biphenyl (PCB); Monooxygenase (Borlakoglu, J.T. (1036) 167)

Electron spin resonance; Site-directed mutagenesis; Hemoprotein (Sotokawa, H. (1037) 122)

Immunochemical homology; (Rainbow trout); (Rat) (Miranda, C.L. (1037) 155)

Chloroperoxidase (Lukat, G.S. (1037) 351)

Enzyme purification; Steroid metabolism; Hepatoma; (Mouse liver) (Lange, R. (1038) 130)

Resonance Raman; Laurate($\omega - 1$)-hydroxylase; Carbonmonoxide adduct (Egawa, T. (1040) 211)

Bile acid; Cholesterol 7α-hydroxylase; Postnatal development; (Pig hepatocyte) (Kwekkeboom, J. (1042) 386)

Prostaglandin A_1; Arachidonic acid; Lauric acid; Hydroxylation; (Rat hepatic microsome) (Tanaka, S. (1043) 177)

Lipid peroxidation; NADPH–cytochrome *P*-450 reductase; Superoxide generation; (Human placental mitochondria) (Klimek, J. (1044) 158)

Cytochrome *P*-450 component
Ferredoxin; ESR; Iron-sulfur cluster; (*S. griseus*) (Trower, M.K. (1037) 281)

Cytochrome $P\text{-}450_{1\alpha}$
Protein purification; (Chicken-kidney); (Mitochondria) (Mandel, M.L. (1034) 239)

Cytochrome *P*-450 IIE1
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Cytochrome *P*-450 isozyme
UDPglucuronosyltransferase; Thyroid hormone; Carboxylic acid; Peroxisome marker; (Rat liver) (Goudonnet, H. (1035) 12)

Cytokine
Prostaglandin E_2; Inflammatory arthritis; Recombinant cytokine; Interleukin 1; (human chondrocyte) (Campbell, I.K. (1051) 310)

Cytolysin
Cholesterol heterogeneity; Erythrocyte; Lymphoma B cell; θ-Toxin; *(C. perfringens)* (Ohno-Iwashita, Y. (1023) 441)

Cytoplasm
Oxidoreductase; Mitochondrion; Dichlorophenolindophenol; Artificial coupling site; (Hepatocyte); (Hepatoma) (Mayer, D. (1015) 258)

Cytoplasmic calcium ion
Membrane potential; Mitogenic stimulation; Polyene antibiotic (Henry-Toulmé, N. (1051) 285)

Intracellular signal; Cytoplasmatic pH; Vincristine sensitivity; (Human tumor cell) (Nygren, P. (1052) 392)

Sodium ion–proton exchange; Concanavalin A; (Rat thymocyte) (Gukovskaya, A.S. (1051) 242)

Cytoplasmic cesium-133 relaxation
Ion influx; NMR, ^{133}Cs-; Ion transport; (Maize) (Pfeffer, P.E. (1054) 169)

Cytoplasmic magnesium
Insulin; Secretion; Pancreatic β-cell (Gylfe, E. (1055) 82)

Cytosine arabinoside
Liposome; Drug delivery; Endosome; Lysosome; Fluorescence; Cytotoxicity (Brown, P.M. (1023) 341)

Cytoskeletal interaction
CTP:cholinephosphate cytidylyltransferase; Actin; Poly(ethyleneglycol); Enzyme activation; (Human lung) (Hunt, A.N. (1043) 19)

Cytoskeletal synthesis
Actin synthesis; Tubulin synthesis; cAMP; Calcium, intracellular; (Mouse osteoblast cells) (Lomri, A. (1052) 179)

Cytoskeleton
Spectrin; Actin; Mercurial; Ankyrin; Band 3 protein (Clark, S.J. (1021) 141)

Cytotoxicity; Thromboxane B_2; Bleb formation; Plasma membrane; Proteinase inhibitor; Prostaglandin; (Rat hepatocyte) (Horton, A.A. (1022) 319)

Cell volume; *p*-Chloromercuribenzene sulfonate; *N*-Ethylmaleimide; ATPase, Na^+/K^+-; Actin, F-; (Dogfish rectal gland cell) (Kleinzeller, A. (1025) 21)

Actin; Depolymerization; Denaturation; Erythrocyte; (Human) (Gordon, S. (1025) 43)

Keratin; Lipid; Mammary cell (Asch, H.L. (1034) 303)

Spectrin; Actin binding; Calmodulin binding; (Rat liver) (Falchetto, R. (1039) 73)

GPIIb/IIIa; Aggregation; Calcium ion concentration, intracellular; TXB_2; (Human platelet) (Yamaguchi, A. (1054) 8)

Hydrogen-ion concentration; Cell movement; Granulocyte (Tonetti, M. (1054) 154)

Cytosol free calcium
Pyruvate dehydrogenase interconversion; Calcium content; Mitochondrion; (Heart) (Hansford, R.G. (1018) 282)

Cytosolic calcium buffering
Calcium storage; Intracellular distribution; Organelle; Calcium binding (Meldolesi, J. (1055) 130)

Cytosolic compartment
Acyl-CoA; Acylcarnitine; Mitochondrial compartment; Palmitate, exogenous; Hypoxia, low flow (Hütter, J.F. (1016) 244)

Cytosolic factor
NADPH oxidase; Nucleotide binding; NADPH binding site; Superoxide generation; (Macrophage) (Sha'ag, D. (1037) 405)

Cytosolic free calcium
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Cytotoxicity
Thromboxane B_2; Bleb formation; Plasma membrane; Proteinase inhibitor; Prostaglandin; Cytoskeleton; (Rat hepatocyte) (Horton, A.A. (1022) 319)

Cytotoxicity
Liposome; Cytosine arabinoside; Drug delivery; Endosome; Lysosome; Fluorescence (Brown, P.M. (1023) 341)

Lysosome; Glycyl-D-phenylalanine-2-naphthylamide (Jadot, M. (1027) 205)

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Tumor growth inhibition; Glycoprotein; Protein conformation (Miwa, N. (1034) 309)

Aflatoxin B_1; Primary hepatocyte; Protein binding (Iwaki, M. (1035) 146)

7β-Hydroxycholesterol; Acyl-CoA : cholesterol acyltransferase; Glial cell (Kupferberg, A. (1046) 106)

Sphingosine; Sphinganine; Sphingolipid; Protein kinase C; Growth; (Chinese hamster ovary cell) (Stevens, V.L. (1051) 37)

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Dark incubation
Vitamin A; Isomerization; Retinal pigment epithelium; Neural retina; Bleaching; HPLC (Shi, H. (1035) 1)

Daunomycin
Freeze-fracture; Cellular multidrug resistance; Intramembrane particle; Membrane protein; Chemotherapy drug; Anthracycline (Garci-Segura, L.M. (1029) 191)

Adriamycin; Actinomycin-D; Nucleoside triphosphate; Glucose metabolism; Cell cycle distribution; (Human breast cancer cell) (Neeman, M. (1052) 255)

Daunorubicin
Anthracycline; Transport kinetics; P-glycoprotein; Transmembrane pH; Exocytosis; (Ehrlich ascites tumor) (Demant, E.J.F. (1055) 117)

Daunorubicin reductase
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D1-D2-cytochrome *b*-559 complex
Photosynthesis; Photosystem II; Phase fluorometry; Reaction center; (*S. oleracea*) (Govindjee, (1015) 173)

DDT
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DEAE-dextran
DNA transfection; Osmotic shock; (Mouse lymphoid cell) (Takai, T. (1048) 105)

1-Deamino-8-D-arginine vasopressin
Von Willebrand factor release; ELISA; (Human umbilical vein endothelial cells) (Hashemi, S. (1052) 63)

Degradation
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Degranulation
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Degranulation; (Human neutrophil)
Respiratory burst; Chemoattractant; Calcium ionophore (Dahlgren, C. (1052) 42)

Dehydroascorbic acid
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Dehydroergosterol
Cholesterol; Synaptic plasma membrane; Ethanol; Membrane domain; Membrane asymmetry; Fluorescence (Wood, W.G. (1025) 243)

Dehydrogenase
Thromboxane; Radioimmunoassay; (Liver) (Wu, P. (1036) 55)

Biliverdin; Thiol residue; Molecular form; NADPH binding; (Rat liver) (Frydman, J. (1040) 119)

Dehydrogenation
Arginine; Glyoxal; Enzyme modification; Salicylate hydroxylase; (*P. putida*) (Suzuki, K. (1040) 327)

Delayed fluorescence
Photosynthesis; Reaction center; Free energy difference; Radical pair state; (*Rb sphaeroides*) (Ogrodnik, A. (1020) 65)

Deletion
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Deletion/insertion
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Demethylation
De novo methylation; X chromosome inactivation; Genomic imprinting; Gene expression; 5-Azacytidine (Cedar, H. (1049) 1)

Denaturation
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Cellulase; Cellobiohydrolase I; Guanidine hydrochloride; Renaturation; Cellulose (Woodward, J. (1037) 81)

De novo methylation
Demethylation; X chromosome inactivation; Genomic imprinting; Gene expression; 5-Azacytidine (Cedar, H. (1049) 1)

Density fractionation
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Density gradient fraction
Membrane; Lipid; ATPase, Na^+/K^+-; NMR, ^1H-; (Embryo) (Sparling, M.L. (1028) 117)

Dental caries
Glucan; Glucosyltransferase; *(Strep. sobrinus)* (Takada, K. (1033) 91)

Deoxycytidylate deaminase
small cytoplasmic RNA; Gene fusion; (*B. subtilis*) (Struck, J.C.R. (1050) 80)

2-Deoxy-D-glucose uptake
Glucose uptake; Hexokinase activity; ATP; (Cultured human muscle cells) (Jacobs, A.E.M. (1051) 230)

3-Deoxyglucosone metabolism
Dicarbonyl metabolism; Maillard reaction product metabolism; 2-Oxoaldehyde reductase (Kato, H. (1035) 71)

Deoxyhypusine
Hypusine; Post-translational modification; (*Neurospora crassa* mutant) (Yang, Y.C. (1033) 133)

Deoxyhypusine formation
NAD^+ dependence; Post-translational modification (Dou, Q.-P. (1036) 128)

Deoxynojirimycin
Cardiac lipolysis; Glycogenolysis; Tissue oxygenation; Fluorocarbon (Hülsmann, W.C. (1055) 189)

Deoxyribonuclease
Active site; Disulfide; *p*-Nitrophenyl phenylphosphonate; (Shrimp hepatopancreas); (Bovine pancreas) (Chou, M.-Y. (1036) 95)

Depolymerization
Actin; Denaturation; Cytoskeleton; Erythrocyte; (Human) (Gordon, S. (1025) 43)

Δ^4-Desaturase
Beta oxidation; Peroxisome; Docosahexaenoic acid; Adrenic acid; X-linked adrenoleukodystrophy; Zellweger syndrome; (Fibroblast) (Grønn, M. (1044) 249)

Δ^9-Desaturase
Fatty acid; Essential fatty acid; Arachidonic acid; Oleate; Liver; (Mouse) (Lefkowith, J.B. (1044) 13)

Desaturase activity
Lipid composition; Duodenal mucosa; Diet; (Rat) (Girón, M.D. (1045) 69)

Detergent
Enzyme latency; Fatty acid; ATPase, H^+-; Lysophosphatidylcholine; Plasma membrane (Palmgren, M.G. (1021) 133)

UDPglucose–ceramide glucosyltransferase; Solubilization; Osmolyte (Durieux, I. (1024) 263)

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Phospholipase C; Brain membrane; G-protein (Carter, H.R. (1054) 129)

Detergent, neutral
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Detergent–protein interaction
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Detergent purification
Octyl β-D-glucopyranoside; Micellar size; Protein solubilization; Membrane reconstitution (Lorber, B. (1023) 254)

Detyrosination
Microtubule; Tubulin carboxypeptidase; Polyanion; Polycation (Lopez, R.A. (1039) 209)

Deuterium exchange
NMR, ^1H-; Iodination; Photo-CIDNP; Interleukin-6; Chemical modification; (Human) (Nishimura, C. (1041) 243)

Development
Amino acid transport; System $b^{0,+}$; System L; Preimplantation conceptus; (Mouse egg); (Mouse embryo) (Van Winkle, L.J. (1021) 77)

Amino acid transport; System B; System $B^{0,+}$; Preimplantation conceptus; (Mouse egg); (Mouse embryo) (Van Winkle, L.J. (1025) 225)

Amino acid transport; Tryptophan; System T; Blastocyst; (Mouse embryo) (Van Winkle, L.J. (1027) 268)

Amino acid transport; Cationic amino acid; Preimplantation conceptus; (Mouse egg); (Mouse embryo) (Van Winkle, L.J. (1028) 165)

Glutathione *S*-transferase; (Human lung); (Human kidney) (Beckett, G.J. (1036) 176)

Sulfolipid metabolism; Myelination; Arylsulfatase A; Cerebroside sulfatase; (Rat brain) (Van der Pal, R.H.M. (1043) 91)

Fetal lung; Lung surfactant; Phospholipid; Surfactant protein; Surface activity; (Rat fetus) (Farrell, P.M. (1044) 84)

Choline-phosphate cytidyltransferase; Glucocorticoid; Hormone action; Phospholipid synthesis; Lung surfactant; (Fetal rat lung) (Rooney, S.A. (1044) 385)

Ventricular cell; Patch clamp; Potassium ion channel; Inward rectifier; (Chick heart) (Josephson, I.R. (1052) 123)

Developmental regulation
Embryogenesis; Transcription unit; (*Deb-A*, *Deb-B*); (*D. melanogaster*) (Vincent III, W.S. (1049) 59)

Creatine kinase; mRNA; (Rat) (Trask, R.V. (1049) 182)

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Exocrine pancreas; Amylase mRNA; Postnatal development; (Rat) (Lee, P.-C. (1049) 244)

Tetradecylthioacetic acid; Peroxisomal β-oxidation; Insulin; Growth inhibition; (Morris hepatoma cell) (Norrheim, L. (1051) 319)

Cell cycle; DNA synthesis; Cell proliferation; (Rat hepatoma cell) (Spydevold, (1052) 221)

Dextran phosphate
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Advanced glycation product; Acid hydrolysis; Proteinase hydrolysis; Mass spectrometry; Insoluble collagen (Lapolla, A. (1033) 13)

Serum esterase; Hyperlipidemia; (Rat) (Patel, B.N. (1035) 113)

Fatty acid; Acyl chain elongation (Suneja, S.K. (1042) 81)

Bile acid; Cholesterol; Phosphatidylcholine; Sex; (Rat) (Marin, J.J.G. (1043) 106)

Oxygen radical; Lipid peroxidation; Antioxidant; (Heart); (Kidney) (Parinandi, N.L. (1047) 63)

Protein phosphatase; Hepatic metabolism; Fasting; Streptozotocin; (Rat liver) (Csortos, C. (1052) 235)

Diabetic angiopathies
Myo-inositol uptake; Hyperglycemia; Competitive inhibition; Sorbinil; (Porcine aortic endothelial cell) (Olgemöller, B. (1052) 47)

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Diacetylene
Polymerized membrane; Reconstitution; Bacteriorhodopsin; Phosphatidylcholine bilayer; Freeze-fracture (Ahl, P.L. (1028) 141)

Diacetylenic lipid bilayer
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Diacylglycerol
Phospholipase C; Diacylglycerol lipase; (Rat liver cytosol) (Ide, H. (1044) 179)

Phosphatidylethanolamine exchange; Lipid; Metabolism; (*E. coli*) (Proulx, P. (1044) 368)

Lipoprotein; Apolipophorin; Lipase; Adipokinetic hormone; Lipid transfer; (Insect) (Van der Horst, D.J. (1047) 195)

Phorbol ester; Ether phospholipid; Cell culture; (Human) (Hii, C.S.T. (1052) 327)

Phospholipase D; Phosphatidylcholine; Phorbol myristate acetate; Phosphatidic acid; (Endothelial cell) (Martin, T.W. (1053) 162)

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Diacylglycerol acyltransferase
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Diacylglycerol lipase
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Diaphorase
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9-Diazomethylanthracene derivative
Fatty acid isolation; Lipid translocation; Microsome; Mitochondrion; (Hepatocyte) (Jakobsson, Å. (1046) 277)

Dicarbonyl metabolism
3-Deoxyglucosone metabolism; Maillard reaction product metabolism; 2-Oxoaldehyde reductase (Kato, H. (1035) 71)

Dicarboxylic acid
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Dichlorophosphonazo III
GMP cyclic; Magnesium ion; Photoreceptor rod; Gated channel (Wohlfart, P. (1022) 283)

2′,3′-Dideoxynucleoside triphosphate
Terminal transferase; Inhibition; (Calf thymus) (Ono, K. (1049) 15)

DIDS
Anion transport; Liposome; (Pig kidney); (TALH) (Breuer, W. (1022) 229)

Mucin secretion; Potassium ion channel blocker; Chloride ion channel; (Colonic adenocarcinoma) (Marcon, M.A. (1052) 17)

Dielectric measurement
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Dielectric permittivity effect
Enzyme kinetics; Charge transfer reaction; Formate dehydrogenase; Organic cosolvent; (*Pseudomonas* sp101) (Demchenko, A.P. (1039) 290)

Dielectrophoresis
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Cell surface; Membrane conductivity; Surface charge; (Friend murine erythroleukemia cell); (Human red blood cell) (Burt, J.P.H. (1034) 93)

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Dielectrophoretic alignment
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2,4-Dienoyl-CoA reductase
cDNA; Phage λgt11; Phage λgt10; (Peroxisomal mitochondria) (Hirose, A. (1049) 346)

Diet
Cholesterol metabolism; Fat-rich diet; Blood lipoprotein; (Hamster liver); (Hamster aorta); (Hamster intestine) (Jackson, B. (1045) 21)

Lipid composition; Desaturase activity; Duodenal mucosa; (Rat) (Girón, M.D. (1045) 69)

Dietary fat
Marine oil; Lipid composition; Polyunsaturated fatty acid; Thromboxane synthesis; Platelet function; Megakaryocyte; (Guinea pig) (Schick, P.K. (1022) 49)

Fluidity; HDL; Phosphatidylcholine; Sphingomyelin; Fluorescence polarization; (Human) (Sola, R. (1043) 43)

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Parathyroid hormone; Phosphate transport; Brush border; Membrane vesicle; (Pig kidney) (Quamme, G.A. (1024) 122)

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Di(2-ethylhexyl)phthalate
Dihydroxyacetone phosphate; Glycerol 3-phosphate; Phospholipid; Clofibrate; Peroxisome; (Rat liver) (Horie, S. (1042) 294)

Di(ethylhexyl)phthalate
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Acid phosphatase purification; Enzyme kinetics; (Barley root) (Panara, F. (1037) 73)

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Differential interference contrast
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Differential scanning calorimetry
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Differential thermoanalysis
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Differentiation
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Phospholipid composition; Phospholipase D; (*Physarum polycephalum*) (Minowa, A. (1043) 129)

Proto-oncogene induction; Extracellular matrix; *fos*; *sis*; (Glioma) (Tang, S.-J. (1048) 59)

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Phosphoinositidase C; G-protein; (U937 monocyte); (Human monoblastic cell line) (Pollock, K. (1051) 71)

Histone synthesis; Spherulation; (*P. polycephalum*) (Heads, R.J. (1053) 56)

Diffusion
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NMR, ^{31}P-; Creatine kinase; Energy transport; Shuttle; (Frog skeletal muscle) (Yoshizaki, K. (1051) 144)

Difluoromethylornithine binding
Antizyme binding; Ornithine decarboxylase structure; Polyamine biosynthesis (Mitchell, J.L.A. (1037) 115)

Digalactosyldiacylglycerol
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Digitonin
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Dihydrofolate reductase
Thiosemicarbazone; Activity modulation; Methotrexate activity enhancement (Lebrun, E. (1034) 81)

Enzyme purification; Amino acid sequence; Affinity chromatography; (*D. melanogaster*) (Rancourt, S.L. (1039) 261)

NADPH; Antifolate binding; Trimetrexate; Trimethoprim (Gilli, R.M. (1040) 245)

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Dihydropyridine receptor
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Dihydroxyacetone phosphate
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1,25-Dihydroxycholecalciferol
Epithelial membrane transport; Sulfhydryl group; Brush-border membrane; (Chick duodenum) (Mykkanen, H.M. (1033) 282)

Vitamin D-3; Calcium ion mobilization; Cell maturation; PAF receptors; Leukotriene D_4; (U937 cell); (Human cell) (Aepfelbacher, M. (1051) 179)

Dihydroxyindole
Hydroxymethoxyindole; Indolesemiquinone; Indolequinone; Pulse radiolysis (Lambert, C. (1035) 319)

7,13-Dihydroxy-2-*trans*-octadecenoic acid
Taurolipid precursor; (*Tetrahymena*) (Kaya, K. (1042) 338)

1,25-Dihydroxyvitamin D-3
Vitamin D-3; 24,25-Dihydroxyvitamin D-3; Phospholipid; Chondrocyte; Arachidonic acid turnover; Matrix vesicle (Schwartz, Z. (1027) 278)

24,25-Dihydroxyvitamin D-3
Vitamin D-3; 1,25-Dihydroxyvitamin D-3; Phospholipid; Chondrocyte; Arachidonic acid turnover; Matrix vesicle (Schwartz, Z. (1027) 278)

1,25-Dihydroxyvitamin D-3 receptor
Duodenal receptor; Calcium ion absorption; Aging; Osteoporosis; (Rat duodenum) (Takamoto, S. (1034) 22)

Diisopropylfluorophosphate
Proteinase; Chymotrypsin; Subunit specificity; Enzyme subunit; Multifunctional enzyme; (Chicken liver) (Sato, S. (1041) 269)

Diisopropylphosphoryl-α-chymotrypsin
α-Chymotrypsin; Self-association; Active site; Sedimentation; (Archibald) (Murthy, B.S.N. (1041) 285)

Dilauroylphosphatidylcholine
Stereochemistry; Lipid bilayer; Infrared spectroscopy (Pidgeon, C. (1029) 173)

Dimeric structure
ATPase, Ca^{2+}-; Protein–protein interaction; Sarcoplasmic reticulum; Laser light scattering (Kijima, Y. (1041) 1)

Dimerization
P-glycoprotein; Glycoprotein; Multidrug resistance; Radiation inactivation; (CHO cell) (Boscoboinik, D. (1027) 225)

5,5-Dimethyloxazolidine-2,4-dione
Vanadium; Tunicate; pH, intracellular; (*A. ceratodes*) (Lee, S. (1033) 311)

Dimethyl suberimidate
Creatine kinase; Crosslinking; Thermal stability; (Bovine heart) (Sheehan, H. (1041) 141)

Dimethylsulfoxide
ATPase, Na^+/K^+-; Phosphoenzyme; Potassium present; Sodium absent (Barrabin, H. (1023) 266)

ATPase, Na^+/K^+-; ATP synthesis; ATP hydrolysis; (Kidney) (De Moraes, V.L.G. (1026) 135)

Magnesium ion; Potassium ion; Acetyl phosphate; Sarcoplasmic reticulum; ATPase, (Ca^{2+}/Mg^{2+})-; (Rabbit) (Chini, E.N. (1030) 152)

Water channel; Mercurial sulfhydryl reagent; Reflection coefficient; Brush-border membrane; (Rat kidney) (Van Hoek, A.N. (1030) 203)

Dimyristoylphosphatidylcholine
Phase transition; Trehalose; Sucrose; Membrane permeability; Carboxyfluorescein; Liposome (Fabrie, C.H.J.P. (1024) 380)

Ripple structure; Small angle X-ray diffraction (Matuoka, S. (1028) 103)

Fluorescence polarization; DSC (McLean, L.R. (1029) 161)

Dinoflagellate
Energy transfer; Fluorescence spectroscopy; Peridinin; Photosynthesis; (*P. tamarensis*) (Mimuro, M. (1016) 280)

Basic nuclear protein; DNA binding protein; (*C. cohnii*) (Vernet, G. (1048) 281)

Diol
Erythrocyte membrane; Permeability; Water; Glycerol; Urea; Ethylene glycol; Reflection coefficient (Toon, M.R. (1022) 57)

Dioleoylphosphatidylcholine
Polychlorobiphenyl; Phenothiazine; Phospholipid monolayer; Mercury electrode; Phase transition; Membrane (Nelson, A. (1021) 205)

Steroid; Digalactosyldiacylglycerol; Cholestane spin label; Order parameter; Dynamics; Spin label (Korstanje, L.J. (1022) 155)

Dioxovalerate transaminase
Alanine; Regulation; Heme synthesis (Mamet, R. (1034) 148)

Dipalmitoylphosphatidylcholine
Cyclosporin A; NMR, ^{2}H-; Lipid–protein interaction; Cholesterol (Wiedmann, T.S. (1023) 12)

NMR, ^{13}C CP-MAS; Phospholipid bilayer; Phospholipid conformation (Bruzik, K.S. (1023) 143)

Hydrated multibilayer; Orientation; Phase transition; FTIR; Infrared reflection spectroscopy (Okamura, E. (1025) 94)

Lysophosphatidylcholine; Interdigitated bilayer; NMR; Cross polarization/magic angle spinning; DSC (Wu, W. (1026) 225)

Liposome; Merocyanine 540; Glycerol; Permeability (Biondi, A.C. (1028) 43)

Interdigitated gel phase; Ethanol; Specific volume; Phase diagram; DSC (Ohki, K. (1028) 215)

Dipeptide transport
Lysosome membrane (Bird, S.J. (1024) 267)

Diphenylcarbamoyl group
Chymotrypsin; NMR, ^{19}F-; Acylchymotrypsin; Aromatic ring rotation; Exchange process; Active site; Covalent modification (Kairi, M. (1039) 157)

Diphenylhexatriene
Large unilamellar vesicle; Phosphatidylcholine; Plant sterol; Fluorescence anisotropy; (Soybean) (Schuler, I. (1028) 82)

Diphenylhexatrienyl phospholipid
Parinaroyl phospholipid; Zellweger syndrome; Peroxisomal disease; Phospholipid transfer; Cell surface; (Human skin fibroblast) (Loidl, J. (1029) 75)

Diphosphatidylglycerol
Cardiolipin; Cardiolipin analog; Lysocardiolipin; Cytochrome *c*; Electrostatics; Cholate exchange (Abramovitch, D.A. (1020) 34)

2,3-Diphosphoglycerate
Erythrocyte deformability; ATP; Purine nucleotides; (Human erythrocyte) (Suzuki, Y. (1029) 85)

ADP; ATP; NMR, ^{31}P-, visibility; Magnesium ion, free; (Human erythrocyte) (Petersen, A. (1035) 169)

Dipyridamole
Nucleoside transport; Active transport; Facilitated transport; Formycin B; (Mouse); (Pig); (Human) (Plagemann, P.G.W. (1025) 32)

Active transport; Facilitated transport; Nucleoside transport; Macrophage; (Rat); (Mouse) (Plagemann, P.G.W. (1028) 289)

Directed mutagenesis
Yeast; ATPase, H^{+}-; Conserved motif; Mechanism; Regulation (Serrano, R. (1018) 195)

Directed mutation
Phycobilisome; Linker polypeptide; Phycocyanin; (*Synechococcus* sp. PCC 7002); (*A. quadruplicatum*) (De Lorimier, R. (1019) 29)

Disaccharidase
Intestinal brush border; Alkaline phosphatase; Enzyme turnover; Pancreatic proteinase (Young, G.P. (1022) 393)

Disaccharide
Proline transport; Sodium, Eetracellular; Sodium, Intracellular; Protein synthesis; Cell volume (Petronini, P.G. (1053) 144)

Disintegrin
Integrin; Glycoprotein IIb-IIIa; Amino acid sequence; Recognition site; (Human platelet) (Williams, J. (1039) 81)

Displacement
Apolipoprotein A-IV; Hepatic membrane; Liver; Lipoprotein; Binding specificity (Weinberg, R.B. (1044) 255)

Displacement model
Nascent peptide; Protein synthesis; Ribosome; Erythromycin; Puromycin (Hardesty, B. (1050) 197)

Dissemination protein
Bio-carrier; Red blood cell; Protein encapsulation; Erythrocyte; Kinetics (Zolla, L. (1024) 5)

Dissociation
D-Glyceraldehyde-3-phosphate dehydrogenase; Guanidine denaturation; Aggregation; Unfolding; Inactivation (Liang, S.-J. (1038) 240)

D-Glyceraldehyde-3-phosphate dehydrogenase; Thermal denaturation; Aggregation; Inactivation (Lin, Y.-Z. (1038) 247)

Dissociation constant
Glycerol dehydrogenase; Metallo-enzyme; Fluorescence; Binary complex; (*B. Stearothermophilus*) (Spencer, P. (1040) 130)

EF-Tu; tRNA; Translation; RNA synthesis (Ott, G. (1050) 222)

Disulfide
Deoxyribonuclease; Active site; *p*-Nitrophenyl phenylphosphonate; (Shrimp hepatopancreas); (Bovine pancreas) (Chou, M.-Y. (1036) 95)

Disulfide bond
Threonine metabolism; L-Threonine dehydrogenase; Sulfhydryl group; Metal-ion activation (Craig, P.A. (1037) 30)

Lectin; Agglutinin; Invertebrate lectin; Glycoprotein; (Acorn barnacle) (Muramoto, K. (1039) 52)

Disulfide, mixed
Actin; Shearing stress; Actin ATPase (Stournaras, C. (1037) 86)

Disulfide reduction
Urokinase; Plasminogen activator; Fibrin; Fibrinolysis; Protein refolding (Homandberg, G.A. (1038) 209)

Dithionite
Chlorophyll extraction; Chlorophyll assay; Recalcitrant alga; Ascorbic acid; (*N. atomus*) (Porra, R.J. (1019) 137)

Dithiothreitol
Chloroplast coupling factor; Epsilon subunit; Subunit exchange; (*C. reinhardtii*) (Duhe, R.J. (1017) 70)

Divalent cation
Phosphatidylserine; Lipid asymmetry; Membrane asymmetry; Red blood cell; Erythrocyte ghost; Bovine serum albumin (Connor, J. (1025) 82)

Divalent cation inhibition
Alanine transport; Sodium ion cotransport; Membrane vesicle; Magnesium; Calcium; (Rat liver) (Simmons, T.W. (1023) 462)

Divinylprotochlorophyllide
Aggregation; Solid film; Absorption spectroscopy; Chlorophyll (Böddi, B. (1015) 116)

DNA
Adriamycin; Anthracycline; pK_a; Cell nucleus; Fluorescence (Frezard, F. (1036) 121)

cGMP-binding protein; Synthetic oligodeoxyribonucleotide; (*D. discoideum*) (Parissenti, A.M. (1040) 294)

DNA binding
HnRNP; C protein; Helix-loop-helix; Helix-turn-helix; (Rat) (Sharp, Z.D. (1048) 306)

DNA binding protein
Basic nuclear protein; Dinoflagellate; (*C. cohnii*) (Vernet, G. (1048) 281)

DNA conformation
NMR, ^{1}H-; DNA decamer (Searle, M.S. (1049) 69)

NMR; Nuclear Overhauser enhancement; Energy minimization (Lane, A.N. (1049) 205)

DNA cross-linking
Cisplatin; Cyclohexanediamineplatinum(II); ELISA; Platinum-DNA adduct (Yamada, H. (1049) 298)

DNA damage
Nuclear membrane; (Human cell line) (Kvam, E. (1049) 33)

DNA decamer
NMR, ^{1}H-; DNA conformation (Searle, M.S. (1049) 69)

DNA-excess solution hybridization
mRNA; G-protein; Transmembrane signaling; Antisense DNA probe; (Rat) (Rapiejko, P.J. (1052) 348)

***dna* factor**
Bacteriophage α3; Origin mutant; Deletion/insertion; Complementary strand; DNA sequence (Nakano, K. (1048) 43)

DNA interaction
Substituted rigidly linked diquinoline (McFadyen, W.D. (1048) 50)

DNA methylation
Bacterial alkaline phosphatase; Base composition; 5-Methyldeoxycytidine; Nuclease P_1 (Palmgren, G. (1049) 293)

DNA, mitochondrial
Ophthalmoplegia, chronic progressive external; Muscle mitochondrion; Kearns-Sayre syndrome; Mitochondrial defect; Oxidative phosphorylation; (Human) (Scholte, H.R. (1018) 211)

Mitochondrial myopathy; Respiratory chain dysfunction; (Human muscle) (Morgan-Hughes, J.A. (1018) 217)

DNA modification
Spin labeling; Guanine modification (Weygand-Durasevic, I. (1048) 38)

DNA polymerase
Reverse transcription; HIV reverse transcriptase; (Wheat) (Laquel, P. (1048) 139)

DNA protein binding
Regulatory element, downstream; rRNA; P_2 promoter; Oligonucleotide, synthetic (Csiszár, K. (1050) 312)

DNA–protein interaction
Chromosomal protein; Chromatin structure; Gene structure; High mobility group protein (Bustin, M. (1049) 231)

DNA repair
Diamide; Protein thiol; Radiosensitization (Baker, M.A. (1037) 39)

DNA replication
Caffeine; UV damage; Cell cycle; (Muntjac fibroblast) (Musk, S.R.R. (1052) 53)

DNA sequence
Bacteriophage α3; Origin mutant; Deletion/insertion; Complementary strand; *dna* factor (Nakano, K. (1048) 43)

DNA structure
NMR; Conformational averaging (Lane, A.N. (1049) 189)

DNA synthesis
Cell cycle; Dexamethasone; Cell proliferation; (Rat hepatoma cell) (Spydevold, (1052) 221)

Growth factor; Epidermal growth factor; Transforming growth factor-α; Immunoblotting; (Rat hepatocytes in primary culture) (Gohda, E. (1053) 21)

Inositol trisphosphate; Platelet-derived growth factor; Phosphate uptake; Neomycin; Signal transduction; (Fibroblast) (Vassbotn, F.S. (1054) 207)

DNA synthesis inhibition
Platelet-derived growth factor; Monoclonal antibody; Receptor binding; (Murine embryonic fibroblast) (Vassbotn, F.S. (1054) 246)

DNA topoisomerase I
Human placenta; Camptothecin (Holden, J.A. (1049) 303)

DNA transfection
Expression mammalian cell; Sodium ion/glucose cotransporter; Lipofection; COS-7 renal cell; Glucose transporter; Gene expression; Expression vector; (Simian kidney cell, COS-7) (Birnir, B. (1048) 100)

Osmotic shock; DEAE-dextran; (Mouse lymphoid cell) (Takai, T. (1048) 105)

DNA transfer
Electrostimulation; Liposome (Chernomordik, L.V. (1024) 179)

cDNA
Cytochrome c_1; Processing; Cell free translation; Matrix proteinase; (Human) (Tanaka-Yamamoto, T. (1019) 257)

ATPase, Na^+/K^+-; Enzyme isoform; Subunit expression (Dhir, R. (1026) 141)

Red blood cell; Hemoglobin; Amino acid sequence; (*G. dibranchiata*) (Zafar, R.S. (1041) 117)

Daunorubicin reductase; Drug metabolism; MCF-7 (Forrest, G.L. (1048) 149)

Amino acid sequence; Cotton; Isocitrate lyase; Nucleotide sequence (Turley, R.B. (1049) 223)

cDNA clone
Cotton; Catalase; Amino acid sequence; Nucleotide sequence (Ni, W. (1049) 219)

cDNA cloning
β_1-Glycoprotein, pregnancy specific; Carcinoembryonic antigen gene family; (Human placenta) (Arakawa, F. (1048) 303)

β-Glucosidase; Restriction enzyme analysis; (*T. emersonii* gene) (Morrison, J. (1049) 27)

cDNA cloning/(COS-1 cell)
Growth hormone; Pituitary; Gene expression; (Porcine DNA) (Kato, Y. (1048) 290)

cDNA expression
ATPase, Na^+/K^+-; Antisense oligonucleotide; *Xenopus* oocyte; (*T. californica*) (Noguchi, S. (1023) 247)

cDNA probe
Pancreatic enzyme; mRNA; Postnatal development; Weaning; (Calf) (Le Huěrou, I. (1048) 257)

recombinant DNA
Collagen; Fibroblast; mRNA; Polymorphism (Mäkelä, J.K. (1049) 171)

Single stranded DNA
Restriction enzyme; Exonuclease; Enzyme mechanism; Exonuclease processivity; BAL 31; Duplex DNA (Zhou, X.-g. (1049) 83)

Docosahexaenoate
Icosapentaenoate; Fish oil; Diet supplementation; Prostaglandin E; (Human) (Ferretti, A. (1045) 299)

Docosahexaenoic acid
Triacylglycerol; Fasting; Liver; Arachidonic acid; Icosapentaenoic acid (Cunnane, S.C. (1036) 64)

Arachidonic acid; Icosapentaenoic acid; Fatty acid metabolism; Leukotriene; Lipoxygenase product; (Rainbow trout leukocyte); (*S. gairdneri*) (Pettitt, T.R. (1042) 62)

4-Hydroxyhexenal; 4-Hydroxynonenal; Lipid peroxidation (Van Kuijk, F.J.G.M. (1043) 116)

Fish oil; Polyunsaturated fatty acid; Icosapentaenoic acid; Brain lipid; (Rat liver); (Rat brain) (Bourre, J.-M. (1043) 149)

Beta oxidation; Peroxisome; Adrenic acid; Δ^4-Desaturase; X-linked adrenoleukodystrophy; Zellweger syndrome; (Fibroblast) (Grønn, M. (1044) 249)

Base exchange; Phosphatidylcholine; Calcium; Phospholipase D; Electrically-excitable membranes; Fatty acid, $n-3$ (Holbrook, P.G. (1046) 185)

Docosapentaenoic acid
Icosapentaenoic acid; Arachidonic acid; Macrophage; Elongase (Chapkin, R.S. (1042) 265)

Dolichol
Dolichyl phosphate; Dolichyl-phosphate phosphatase; (Rat liver) (Marino, M. (1047) 187)

Dolichol kinase
Inner mitochondrial membrane; *N*-Glycosylation (Ardail, D. (1024) 131)

Dolichyl phosphate
Dolichol; Dolichyl-phosphate phosphatase; (Rat liver) (Marino, M. (1047) 187)

Dolichyl-phosphate phosphatase
Dolichol; Dolichyl phosphate; (Rat liver) (Marino, M. (1047) 187)

Domain
Immunocytokine; Secondary structure; Conformation; Homology; Active site (Zav′yalov, V.P. (1041) 178)

Domain II
tRNA binding; rRNA, 23S (Hill, W.E. (1050) 45)

Dopachrome conversion factor
Mammalian melanogenesis; Dopachrome oxidoreductase; (Mouse melanoma) (Aroca, P. (1035) 266)

Dopachrome oxidoreductase
Mammalian melanogenesis; Dopachrome conversion factor; (Mouse melanoma) (Aroca, P. (1035) 266)

Dopachrome tautomerase
Mammalian melanogenesis; Metal cation; (Mouse melanoma) (Jara, J.R. (1035) 276)

Dopamine β-hydroxylase
Copper enzyme; Allostene inhibitor; Enzyme inhibition (Townes, S. (1037) 240)

Catecholamine biosynthesis; Mechanism-based inhibitor; *p*-Cresol; Enzyme inactivation; Active site peptide (Southan, C. (1037) 256)

β-Adrenergic receptor; (Rat) (Ganguly, P.K. (1055) 186)

Dopaquinone
Thiouracil; Melanogenesis; Tyrosinase (Palumbo, A. (1036) 221)

Double cell layer
Electrofusion; Intercellular contact; Dielectrophoresis; Membrane fusion (Sukharev, S.I. (1034) 125)

Double quantum filter
Sodium, intracellular; Sodium, interstitial; Quadrupole relaxation; NMR, ^{23}Na-; (Rat salivary gland) (Seo, Y. (1034) 142)

Doxorubicin
Liposome stability; Blood residence time (Bally, M.B. (1023) 133)

Liposome; Drug entrapment; Phosphatidylcholine vesicle; (Egg yolk) (Mayer, L.D. (1025) 143)

Liposome; Vesicle size; Oligolamellar vesicle; Small unilamellar vesicle; Drug entrapment (Goren, D. (1029) 285)

DPH polarization
Homeoviscous adaptation; Fatty acid composition; Fluorescence; (Carp); (Intestinal mucosa) (Lee, J.A.C. (1026) 195)

DPPC
Phase transition; Electrolyte; Spin label; ESR (Bartucci, R. (1025) 117)

D_1 protein
Manganese; Photoinhibition; Photosystem II; Thylakoid membrane dynamics (Hundal, T. (1017) 235)

Photoinhibition; Cyanobacterium; Photosystem II; (*Synechocystis* 6714) (Kirilovsky, D. (1020) 87)

D_1-protein degradation
Cold stress; Photoinhibition; Photosystem II; Proteinase; Thylakoid membrane dynamics; Protein degradation (Aro, E.-M. (1019) 269)

1,25-Dihydroxyvitamin D receptor
mRNA induction; Osteocalcin synthesis; (Human osteosarcoma cells) (Mahonen, A. (1048) 30)

Drug accumulation
Multidrug resistance; Anthracycline; Multidrug resistance modifier; Active drug transport (Lankelma, J. (1055) 217)

Drug carrier
Liposome; Phosphatidylethanolamine; Ganglioside; Reticuloendothelial system (Liu, D. (1022) 348)

Model membrane; Lipid vesicle; Cell uptake; Biodistribution (Blume, G. (1029) 91)

Drug delivery
Liposome; Cytosine arabinoside; Endosome; Lysosome; Fluorescence; Cytotoxicity (Brown, P.M. (1023) 341)

Endocytosis; Macrophage; Liposome; pH (Daleke, D.L. (1024) 352)

Liposome; pH sensitivity; Endocytosis; Plasma (Collins, D. (1025) 234)

Drug delivery system
Liposome; Methotrexate-γ-aspartate; Liposome stability; Drug encapsulation (Comiskey, S.J. (1024) 307)

Drug efflux
Cholate transport; Methotrexate; Organic anion; Efflux; Multidrug resistance (Henderson, G.B. (1051) 60)

Drug encapsulation
Liposome; Drug delivery system; Methotrexate-γ-aspartate; Liposome stability (Comiskey, S.J. (1024) 307)

Drug entrapment
Liposome; Doxorubicin; Phosphatidylcholine vesicle; (Egg yolk) (Mayer, L.D. (1025) 143)

Liposome; Vesicle size; Oligolamellar vesicle; Small unilamellar vesicle; Doxorubicin (Goren, D. (1029) 285)

Drug–liposome interaction
NMR; X-ray diffraction (Jendrasiak, G.L. (1024) 19)

Drug–membrane interaction
X-ray diffraction; DSC; (−)-Δ^8-Tetrahydrocannabinol; (−)-5′-Iodo-Δ^8-tetrahydrocannabinol (Mavromoustakos, T. (1024) 336)

Solid state NMR; NMR, ^{2}H-; NMR, ^{13}C-; (−)-Δ^9-Tetrahydrocannabinol; Model membrane (Makriyannis, A. (1028) 31)

Drug metabolism
cDNA; Daunorubicin reductase; MCF-7 (Forrest, G.L. (1048) 149)

DSC
ATPase, Ca^{2+}-; Enzyme–phospholipid interaction; 1-Palmitoyl-2-oleoylphosphatidylethanolamine; Cholesterol; Lipid vesicle; Fourier transform infrared spectroscopy (Yang, J. (1021) 27)

α-Tocopherol; α-Tocopheryl acetate; NMR, ^{31}P-; Hexagonal H_{II} phase; Phosphatidylethanolamine (Micol, V. (1022) 194)

Boundary lipid, artificial; Lipid–protein interaction; Fluorescence polarization; Membrane fluidity (Sunamoto, J. (1024) 209)

X-ray diffraction; (−)-Δ^8-Tetrahydrocannabinol; (−)-5′-Iodo-Δ^8-tetrahydrocannabinol; Drug–membrane interaction (Mavromoustakos, T. (1024) 336)

Glucolipid; FTIR; Infrared spectroscopy; X-ray diffraction; Nonbilayer-forming lipid; (*A. laidlawii* B) (Lewis, R.N.A.H. (1026) 21)

Phase separation; Polycation; Phospholipid bilayer; Antimicrobial activity; Antibacterial activity; Minimum inhibitory concentration (Ikeda, T. (1026) 105)

Dipalmitoylphosphatidylcholine; Lysophosphatidylcholine; Interdigitated bilayer; NMR; Cross polarization/magic angle spinning (Wu, W. (1026) 225)

Lipid–protein interaction; Acetylcholine receptor; FTIR; Membrane protein (Bhushan, A. (1027) 93)

Interdigitated gel phase; Ethanol; Specific volume; Phase diagram; Dipalmitoylphosphatidylcholine (Ohki, K. (1028) 215)

Phospholipid bilayer; ATPase, H^+/K^+-; ATPase inhibitor; Fourier transform (Reid, D.G. (1029) 24)

Fluorescence polarization; Dimyristoylphosphatidylcholine (McLean, L.R. (1029) 161)

Temperature adaptation; Fatty acid composition; ATPase, (Ca^{2+} + Mg^{2+})-; Lipid composition; Sarcoplasmic reticulum (Vrbjar, N. (1030) 94)

Flunarizine; Calcium antagonist; Phospholipid phase behavior; Phosphatidylcholine; Phosphatidylethanolamine; Phosphatidylserine (Thomas, P.G. (1030) 211)

Cholesteryl ester; X-ray diffraction (Dorset, D.L. (1046) 57)

X-ray diffraction; Molecular interaction (Dorset, D.L. (1046) 195)

Heat shock; Protein denaturation; Hyperthermia; (*Bacillus*) (Lepock, J.R. (1055) 19)

Duodenal mucosa
Lipid composition; Desaturase activity; Diet; (Rat) (Girón, M.D. (1045) 69)

Duodenal receptor
1,25-Dihydroxyvitamin D-3 receptor; Calcium ion absorption; Aging; Osteoporosis; (Rat duodenum) (Takamoto, S. (1034) 22)

Duplex DNA
Restriction enzyme; Exonuclease; Enzyme mechanism; Exonuclease processivity; BAL 31; Single stranded DNA (Zhou, X.-g. (1049) 83)

Dynamical coupling
Coupling, physiological; Hierarchical control theory (Westerhoff, H.V. (1018) 142)

Dynamics
Steroid; Dioleoylphosphatidylcholine; Digalactosyldiacylglycerol; Cholestane spin label; Order parameter; Spin label (Korstanje, L.J. (1022) 155)

Dynamism
Macromolecular interaction; Modulation; Glycolytic enzyme; Specificity (Neuzil, J. (1037) 307)

E

EAC
β-Glucosidase; Chemical modification; Carbodiimide; Carboxyl; Catalytic mechanism; (*S. commune*) (Clarke, A.J. (1040) 145)

***E. coli* expression**
Recombinant protein; Metallothionein; Enzyme purification; Cd stabilization; Immunochemical characterization; (Rainbow trout) (Kille, P. (1048) 178)

Ectoenzyme
Brush-border membrane vesicle; Ectonucleotidase; Adenosine; (Rat kidney) (Čulić, O. (1030) 143)

Ectonucleotidase
Ectoenzyme; Brush-border membrane vesicle; Adenosine; (Rat kidney) (Čulić, O. (1030) 143)

E-domain peptide
Insulin-like growth factor II; (Rat serum); (BRL-3A rat liver cell); (Rat embryo fibroblast) (Hylka, V.W. (1051) 6)

EDTA extractable protein
Calpactin; Lipocortin; Lens protein (Kobayashi, R. (1034) 4)

Effector
Protein phosphorylation; Protein kinase; (Ovaria) (Maizels, E.T. (1054) 285)

Efflux
Uptake; Mitochondrion; Aspartate aminotransferase; Malate dehydrogenase; Degradation (Passarella, S. (1022) 273)

Cholate transport; Methotrexate; Organic anion; Drug efflux; Multidrug resistance (Henderson, G.B. (1051) 60)

EF-Tu
tRNA; Translation; Dissociation constant; RNA synthesis (Ott, G. (1050) 222)

Stable RNA operon; *Trans*-activation; FIS; Transcription regulation; (*E. coli*) (Bosch, L. (1050) 293)

EF-Tu structure
Elongation factor Tu; GDP/GTP binding site (Clark, B.F.C. (1050) 203)

EGF
Tyrosine phosphorylation; Growth factor; Signal transduction; Insulin; FGF (Kyriakis, J.M. (1054) 73)

EGF receptor
Membrane vesicle; Scatchard analysis; (A431 cells) (Berkers, J.A.M. (1052) 453)

Epidermal growth factor; Tyrosine kinase; Receptor activation; Metal ion; Holoreceptor (Koland, J.G. (1052) 489)

Ehrlich tumor cell
Volume regulation; Regulatory volume increase; Ion transport; Sodium/potassium/chloride cotransport (Levinson, C. (1021) 1)

Eicosa, see Icosa

eIF-2
Ethionine; Ternary complex; Peptide chain initiation; Ribosomal subunit (Lyon, A.W. (1049) 158)

eIF-2 epitope
Translational control; mRNA binding; methionyl-$tRNA_f$ binding; Eukaryotic initiation factor 2; Antibodies against eIF-2 (Harary, R. (1050) 129)

Elasticity
Lung surfactant; Surface tension; Monolayer; Free energy; Enthalpy; Entropy (Vodyanoy, V. (1047) 284)

Elastic neutron scattering
Lipid bilayer; Polymerizable lipid bilayer; Water profile; Diacetylenic lipid bilayer (Blechner, S.L. (1022) 291)

Elastin
Enzyme kinetics; Insoluble substrate; Leukocyte elastase; Enzyme inhibition (Baici, A. (1040) 355)

Electrical breakdown
Bilayer lipid membrane; Ganglioside; Monolayer fusion (Melikyan, G.B. (1030) 11)

Electrically-excitable membranes
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Electropermeabilization
Electroporation; Electroosmosis; Erythrocyte (Dimitrov, D.S. (1022) 381)

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Elongation factor 1δ
Proteolytic digestion; Elongation factor 1β; Nucleotide exchange domain; Clostripain; Papain (Van Damme, H.T.F. (1050) 241)

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Endotoxin tolerance
Endotoxin; G-protein; Macrophage; (*S. enteritidis*) (Coffee, K.A. (1035) 201)

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Energy metabolism
Rectus muscle; Energy charge; (Human uterus) (Wedenberg, K. (1033) 31)

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Entropy
Heat capacity; Enthalpy; Gibbs energy; Globular protein; Stabilization (Khechinashvili, N.N. (1040) 346)

Lung surfactant; Surface tension; Elasticity; Monolayer; Free energy; Enthalpy (Vodyanoy, V. (1047) 284)

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Acyl transfer reaction; S′-subsite specificity; Endoproteinase Glu-C; Nucleophile efficiency; (*Staphylococcus* V8) (Schuster, M. (1036) 245)

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Photosystem II reaction center; Nitric oxide; Non-heme iron; Bicarbonate; Quinone-iron complex (Diner, B.A. (1015) 141)

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ESR multiline signal
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Estrone
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Cell volume; *p*-Chloromercuribenzene sulfonate; ATPase, Na^+/K^+-; Actin, F-; Cytoskeleton; (Dogfish rectal gland cell) (Kleinzeller, A. (1025) 21)

5-Ethylphenazine derivative
Electron transfer; Redox potential; NAD(H); NADP(H); Two electron process (Yomo, T. (1017) 139)

Eukaryotic episomal vector
Epstein-Barr virus; (Human cell line) (Vidal, M. (1048) 171)

Eukaryotic initiation factor 2
Translational control; mRNA binding; methionyl-$tRNA_f$ binding; Antibodies against eIF-2; eIF-2 epitope (Harary, R. (1050) 129)

Protein synthesis; mRNA; Fluorescence; m^7G Cap (Goss, D.J. (1050) 163)

Eukaryotic tRNA
$tRNA^{Pro}$; Primary structure; Anticodon loop; Modified nucleoside (Keith, G. (1049) 255)

Europium
Parvalbumin; Calcium-binding site; Luminescence; Lanthanide ion (McNemar, C.W. (1040) 229)

Evacuolated protoplast
Electrofusion; Hypo-osmolar medium; Dielectrophoretic alignment; (*A. sativa*) (Klöck, G. (1025) 87)

Evolution
Photosynthesis; Reaction center; (Plants); (Bacteria) (Mathis, P. (1018) 163)

Transmembrane solute transport; Permease; Energy coupling; Transport, active; Group translocation; Phosphotransferase system (Saier, Jr., M.H. (1018) 248)

Amino acid sequence; Ribosomal protein; Archaebacterium; Amino terminal acetylation; Acetylation, amino terminal; (*H. marismortui*) (Hatakeyama, T. (1039) 343)

Amino acid sequence Ribosomal protein, basic; Archaebacterial gene cluster (Bergmann, U. (1050) 56)

Evolutionary conservation
Protein synthesis; Initiation factor; Elongation factor; Amino acid sequence (Merrick, W.C. (1050) 235)

Exchange process
Chymotrypsin; NMR, ^{19}F-; Diphenylcarbamoyl group; Acylchymotrypsin; Aromatic ring rotation; Active site; Covalent modification (Kairi, M. (1039) 157)

Exchange protein
Phosphatidylcholine; Brush-border membrane; Membrane transport; Protein mediated lipid uptake; (Small intestine) (Thurnhofer, H. (1024) 249)

Excitable membrane
Homeoviscous adaptation; Lipid bilayer; Temperature; Ion channel (Macdonald, A.G. (1031) 291)

Excitation energy distribution
Photosystem I; Light state transition; Cytochrome *f* photooxidation; P700 photooxidation; (Red algae) (Rehm, A.M. (1016) 127)

Excitation energy transfer
Photosystem II; Fluorescence induction; Antenna model (Jennings, R.C. (1016) 259)

Δ^3-*trans*-Hexadecenoic acid; Light-harvesting chlorophyll-protein complex; Lipid; Photosynthesis; (*C. reinhardtii*) (Garnier, J. (1020) 153)

Exciton annihilation
Energy transfer; Photosynthesis; Purple bacterium (Deprez, J. (1015) 295)

Photosynthesis; Trapping; Photovoltage; Purple bacterium; (*Rb. sphaeroides*) (Dobek, A. (1015) 313)

Exciton coupling
Erythrocyte; Band 3 protein; Eosin-5-maleimide; Sulfate efflux; Cysteine residue; Circular dichroism (Chiba, T. (1025) 199)

Exciton trapping
Photovoltage; Photosynthesis; Quantum yield; Annihilation; Charge separation (Trissl, H.-W. (1015) 322)

Exercise
Glutathione; γ-Glutamyltransferase; Cold stress; (Rat liver) (Ohno, H. (1033) 19)

L-Carnitine; Lactate; Short chain acylcarnitine; Acetylcarnitine (Siliprandi, N. (1034) 17)

FT-IR spectroscopy; Albumin; Free fatty acid; Protein conformation; (Human) (Le Gal, J.-M. (1041) 257)

Exocrine pancreas
Amylase mRNA; Dexamethasone; Postnatal development; (Rat) (Lee, P.-C. (1049) 244)

Exocytosis
Annexin; Synexin; Calelectrin; Chromaffin granule; Calcium ion binding protein (Zaks, W.J. (1029) 149)

Phospholipase A_2; Lysosome; Chromaffin granule; (Bovine adrenal gland) (Bartolf, M. (1042) 247)

Anthracycline; Daunorubicin; Transport kinetics; P-glycoprotein; Transmembrane pH; (Ehrlich ascites tumor) (Demant, E.J.F. (1055) 117)

Exocytosis regulation
Pancreatic acinus; Permeabilization (Edwardson, J.M. (1053) 32)

Exometabolite
Protein kinase; Phosphorylation; (*L. major*) (Lester, D.S. (1052) 293)

Exonuclease
Restriction enzyme; Enzyme mechanism; Exonuclease processivity; BAL 31; Single stranded DNA; Duplex DNA (Zhou, X.-g. (1049) 83)

Exonuclease processivity
Restriction enzyme; Exonuclease; Enzyme mechanism; BAL 31; Single stranded DNA; Duplex DNA (Zhou, X.-g. (1049) 83)

Expression mammalian cell
Sodium ion/glucose cotransporter; Lipofection; COS-7 renal cell; Glucose transporter; Gene expression; Expression vector; DNA transfection; (Simian kidney cell, COS-7) (Birnir, B. (1048) 100)

Expression vector
Expression mammalian cell; Sodium ion/glucose cotransporter; Lipofection; COS-7 renal cell; Glucose transporter; Gene expression; DNA transfection; (Simian kidney cell, COS-7) (Birnir, B. (1048) 100)

Extracellular matrix
Proteoglycan; Sulfation; Glomerulus; (Rat) (Templeton, D.M. (1033) 235)

Hyaluronic acid; Fibrinogen; Wound healing; (Human) (Frost, S.J. (1034) 39)

Collagen type VI; Leiomyoma; (Human skin) (Wegrowski, J. (1039) 189)

Lipoprotein lipase; Heparin; Heparan sulfate; Thrombin (Chajek-Shaul, T. (1042) 168)

Proto-oncogene induction; Differentiation; *fos*; *sis*; (Glioma) (Tang, S.-J. (1048) 59)

F

FAB-MS
Ceramide aminoethylphosponate; Ceramide *N*-methylaminoethylphosphonate; Phosphonosphingolipid distribution; (Marine animal) (Matsubara, T. (1042) 280)

Fabry's disease
α-D-Galactosidase; α-D-Fucosidase (Beyer, E. (1038) 386)

Facilitated transport
Nucleoside transport; Active transport; Dipyridamole; Formycin B; (Mouse); (Pig); (Human) (Plagemann, P.G.W. (1025) 32)

Active transport; Nucleoside transport; Dipyridamole; Macrophage; (Rat); (Mouse) (Plagemann, P.G.W. (1028) 289)

Factor-dependent extract
Yeast; Translation initiation; Cap structure; Internal initiation (Altmann, M. (1050) 155)

Factor F_1
ATPase, H^+-; ATPase, F_1-; Anaerobic bacterium; (*L. casei*) (Muntyan, M.S. (1016) 371)

FAD-enzyme
3-Ketosteroid-Δ^1-dehydrogenase; Purification; (*N. corallina*) (Itagaki, E. (1038) 60)

Fasting
Triacylglycerol; Liver; Arachidonic acid; Icosapentaenoic acid; Docosahexaenoic acid (Cunnane, S.C. (1036) 64)

Protein phosphatase; Hepatic metabolism; Diabetes; Streptozotocin; (Rat liver) (Csortos, C. (1052) 235)

Fat
Dietary lipid; Fatty acid composition; Hibernation; (Mammal); (Brain) (Geiser, F. (1046) 159)

Fat-rich diet
Cholesterol metabolism; Diet; Blood lipoprotein; (Hamster liver); (Hamster aorta); (Hamster intestine) (Jackson, B. (1045) 21)

Fatty acid
Detergent; Enzyme latency; ATPase, H^+-; Lysophosphatidylcholine; Plasma membrane (Palmgren, M.G. (1021) 133)

Spin label; Hexagonal H_{II} phase; Cubic phase; ESR; NMR, ^{31}P- (Rama Krishna, Y.V.S. (1024) 89)

Cubic phase; Hexagonal H_{II} phase; Phospholipid bilayer; NMR, ^2H-; X-ray diffraction (Heimburg, T. (1025) 77)

Cardiac structure–function; Acidosis; Ischemia (Hülsmann, W.C. (1033) 214)

Ligand binding; Allosteric interaction; Serum albumin (bovine and human); Hematoporphyrin; ESR; Spin label (Gantchev, T.G. (1037) 422)

Pyruvate kinase; Isoenzyme; Tumor; L-Cysteine; (Mouse liver); (Mouse skeletal muscle) (Kędryna, T. (1039) 130)

Acyl chain elongation; Diabetes (Suneja, S.K. (1042) 81)

HDL; Sphingomyelin; Phosphatidylcholine; Very-long-chain saturated fatty acid; Tissue metabolism; (Rat tissue) (Bentejac, M. (1043) 134)

Leukotriene; Oil; 5-Lipoxygenase; Icosapentaenoic acid; (Rat) (Cleland, L.G. (1043) 253)

Essential fatty acid; Δ^9-Desaturase; Arachidonic acid; Oleate; Liver; (Mouse) (Lefkowith, J.B. (1044) 13)

Arachidonic acid; Dietary protein; Icosatrienoic acid; Linoleic acid; Phosphatidylinositol; (Male rat); (Liver) (Sjöblom, L. (1044) 187)

Blastic transformation; Membrane fluidity; (Human T-lymphocyte) (Anel, A. (1044) 323)

Growth temperature; Calcium; Polar acyl chain; (Thermophilic bacteria) (Martins, L.O. (1045) 17)

Lipoprotein; LDL; Apolipoprotein B; Ultraviolet; Peroxidation; Reactive amino group (Dousset, N. (1045) 219)

Phospholipase A_2; Nuclear membrane; Triiodothyronine; Nuclear T3 receptor; (Rat liver) (Van der Klis, F.R.M. (1047) 131)

Calcium ion–fatty acid interaction; Gluconeogenesis; (Rat liver) (González-Manchón, C. (1051) 215)

Platelet aggregation; Calcium ion mobilization; cyclic AMP; Membrane fluidity; (Bovine blood) (Kitagawa, S. (1054) 114)

Protein kinase C; Diacylglycerol; Tryptophan; Phorbol ester (Lester, D.S. (1054) 297)

Fatty acid analog
Hypolipidemic drug; Peroxisome proliferation; (Liver) (Aarsland, A. (1033) 176)

Fatty acid binding protein
Prostaglandin E_2; Adipocyte membrane; (Rat) (Cohen-Luria, R. (1021) 96)

Peroxisomal enzyme; Peroxisome proliferation; Bezafibrate; Clofibrate; (Cultured rat hepatocyte) (Brandes, R. (1034) 53)

Fatty acid transport; Fatty acid transfer; (*E. coli*) (Black, P.N. (1046) 97)

Flight muscle; (Insect); (*S. gregaria*) (Haunerland, N.H. (1047) 233)

Fatty acid composition
DPH polarization; Homeoviscous adaptation; Fluorescence; (Carp); (Intestinal mucosa) (Lee, J.A.C. (1026) 195)

CD4 marker; Dietary fatty acid; $n-3$ and $n-6$ Polyunsaturated fatty acid; (Lymphoma cell) (Oth, D. (1027) 47)

Temperature adaptation; ATPase, $(Ca^{2+}+Mg^{2+})$-; Lipid composition; Sarcoplasmic reticulum; DSC (Vrbjar, N. (1030) 94)

Dietary lipid; Fat; Hibernation; (Mammal); (Brain) (Geiser, F. (1046) 159)

Fatty acid dehydrogenase
Acyl-CoA dehydrogenase; Valproic acid; Reye's syndrome; 2-Methyl branched chain acyl-CoA dehydrogenase (Ito, M. (1034) 213)

Fatty acid desaturase
Polyunsaturated fatty acid; Blastic transformation; (Human T-lymphocyte) (Anel, A. (1044) 332)

Fatty acid elongation
Palmitoyl-CoA; Arachidoyl-CoA; Very-long-chain fatty acid; Radio gas-chromatography; (Neutrophil microsome; Porcine) (Kugi, M. (1043) 83)

NADH (Demirkapi, N. (1046) 229)

Fatty acid imbalance, $n-6/n-3$
Icosanoid synthesis; Peritoneal macrophage; Immune response; (Rat) (Brouard, C. (1047) 19)

Fatty acid isolation
9-Diazomethylanthracene derivative; Lipid translocation; Microsome; Mitochondrion; (Hepatocyte) (Jakobsson, Å. (1046) 277)

Fatty acid metabolism
Arachidonic acid; Icosapentaenoic acid; Docosahexaenoic acid; Leukotriene; Lipoxygenase product; (Rainbow trout leukocyte); (*S. gairdneri*) (Pettitt, T.R. (1042) 62)

Hypolipidemic fatty acid analog; Long chain fatty acid; (Rat liver peroxisome) (Asiedu, D. (1044) 211)

Fatty acid, $n-3$
Base exchange; Phosphatidylcholine; Calcium; Phospholipase D; Electrically-excitable membranes; Docosahexaenoic acid (Holbrook, P.G. (1046) 185)

Fatty acid, $(n-3)$ and $(n-6)$
Glioma; Plasmalogen; Polyunsaturated fatty acid; Phospholipid; Cell culture (Thomas, S.E. (1044) 349)

Fatty acid oxidation
Sperm-activating peptide; Energy metabolism; Phosphatidylcholine; (Sea-urchin spermatozoa) (Mita, M. (1035) 175)

Cholesterol synthesis; Regulation; HMG-CoA reductase; (Rat liver) (Jansen, H. (1044) 390)

Di(ethylhexyl)phthalate; Carnitine palmitoyltransferase; Cytochrome *c* oxidase; (Rat peroxisome) (Reubsaet, F.A.G. (1047) 264)

Fatty acid synthase
Choline-phosphate cytidylyltransferase; Glucocorticoid; Hormone action; Lung surfactant; (Fetal rat lung) (Xu, Z.-x. (1044) 70)

Fatty acid synthesis
Fatty acid synthetase; Surfactant synthesis; Glucocorticoid induction; Lung surfactant; (Human fetal lung) (Gonzales, L.W. (1042) 1)

Genotype; Insulin concentration (Harrison, L.M. (1046) 202)

Fatty acid synthetase
Fatty acid synthesis; Surfactant synthesis; Glucocorticoid induction; Lung surfactant; (Human fetal lung) (Gonzales, L.W. (1042) 1)

Fatty acid transfer
Fatty acid transport; Fatty acid binding protein; (*E. coli*) (Black, P.N. (1046) 97)

Fatty acid transport
Fatty acid binding protein; Fatty acid transfer; (*E. coli*) (Black, P.N. (1046) 97)

Fatty acyl-CoA ester
ATP:citrate lyase; Citrate-Sepharose affinity; (*Rhodotorula*) (Shashi, K. (1033) 23)

Fatty-acyl CoA-synthetase
Prostaglandin; Antiinflammatory; (Rabbit) (Gerritsen, M.E. (1045) 174)

FCCP
Tight junction; Electrical resistance; ZO-1 protein; (Madin-Darby canine kidney cell) (Li, C. (1030) 297)

Fc receptor
IgA immunoglobulin; Binding factor; (Rat) (Fargeas, C.A. (1037) 344)

Ferredoxin
Electron transfer protein; Cytochrome *c*; Halophile; Purple bacterium; (*R. salinarum*) (Meyer, T.E. (1017) 118)

Electron transfer protein; Cytochrome *c*; Purple bacterium; Yellow protein; (*Rps. marina*) (Meyer, T.E. (1017) 125)

Cytochrome *P*-450 component; ESR; Iron-sulfur cluster; (*S. griseus*) (Trower, M.K. (1037) 281)

Primary structure; Amino acid sequence; (*S. griseus*) (Trower, M.K. (1037) 290)

Methylation; Protein stability; Amine group (Gluck, M. (1038) 146)

Ferredoxin:NADP$^+$ oxidoreductase
Chloroplast; Light activation; Phosphoamino acid; Protein phosphorylation (Hodges, M. (1052) 446)

Ferredoxin-NADP$^+$-reductase
Flavodoxin; Circular dichroism (Fillat, M.F. (1040) 301)

Ferritin
Intestine; Iron absorption; Kinetics; Adaptation; Non-heme iron; (Rat) (Schümann, K. (1033) 277)

Lipid peroxidation; Myeloperoxidase; (Human neutrophil) (Winterbourn, C.C. (1055) 179)

Ferritin repressor protein
Ferritin synthesis; Hemin; (Rabbit) (Lin, J.J. (1050) 146)

Ferritin synthesis
Hemin; Ferritin repressor protein; (Rabbit) (Lin, J.J. (1050) 146)

Ferrochelatase
(Bovine liver); (Bovine kidney); (Mouse erythroleukemia cell) (Nakahashi, Y. (1037) 321)

Hemin; Enzyme inhibition; Inhibition kinetics; (Human lymphocyte) (Rossi, E. (1038) 375)

Enzyme activity; Erythropoietic protoporphyria; Cell culture; (Human) (Blom, C. (1039) 339)

Ferrous/ferric ratio
Lipoperoxidation; Hydroperoxide formation; Iron concentration (Morini, P. (1046) 207)

Ferrous ion
Tyrosinase; Iron; Tyrosine hydroxylation; Oxygen radical; Melanogenesis; Regulation; (Melanoma) (Palumbo, A. (1033) 256)

Fertilization
Cholesterol sulfate; Sperm; Acrosome reaction; Membrane fusion; Membrane destabilization (Cheetham, J.J. (1024) 367)

Proteinase; Proacrosin; Sulfated polysaccharide; Adhesion molecule (Jones, R. (1037) 227)

Fetal bovine serum
Chondrocyte; Collagenase; Interleukin-1 (Kandel, R.A. (1053) 130)

Fetal lung
Development; Lung surfactant; Phospholipid; Surfactant protein; Surface activity; (Rat fetus) (Farrell, P.M. (1044) 84)

Fetal lung maturation
Phosphatidylcholine; Cytidyltransferase; (Rat) (Feldman, D.A. (1045) 49)

F_A/F_B polypeptide
Photosystem I; Reaction center; Photosystem I core protein; Iron-sulfur cluster reconstitution (Parrett, K.G. (1015) 341)

FGF
Tyrosine phosphorylation; Growth factor; Signal transduction; Insulin; EGF (Kyriakis, J.M. (1054) 73)

Fibrin
Urokinase; Disulfide reduction; Plasminogen activator; Fibrinolysis; Protein re-folding (Homandberg, G.A. (1038) 209)

Tissue-type plasminogen activator; Kinetics; (Human) (Fischer, B.E. (1041) 48)

Fibrinogen
Platelet; Glycoprotein IIb-IIIa; Glycoprotein IV; Thrombospondin (Beiso, P. (1033) 7)

Hyaluronic acid; Extracellular matrix; Wound healing; (Human) (Frost, S.J. (1034) 39)

Fibrinogen Bβ chain
Fibrinogen expression; Fibrinogen secretion (Danishefsky, K. (1048) 202)

Fibrinogen expression
Fibrinogen secretion; Fibrinogen Bβ chain (Danishefsky, K. (1048) 202)

Fibrinogen secretion
Fibrinogen expression; Fibrinogen Bβ chain (Danishefsky, K. (1048) 202)

Fibrinolysis
Plasminogen activator inhibitor 1; Vitronectin; Protein–protein interaction (Sigurdardóttir, O. (1035) 56)

Urokinase; Disulfide reduction; Plasminogen activator; Fibrin; Protein re-folding (Homandberg, G.A. (1038) 209)

Fibroblast
Amino acid transport; Isotope dilution; Methotrexate; (Colon adenocarcinoma) (Perán, S. (1024) 233)

Collagen; Hyaluronidase; Proteoglycan; Scoliosis (Lien, Y.-H. (1034) 318)

Collagen; mRNA; recombinant DNA; Polymorphism (Mäkelä, J.K. (1049) 171)

Fibronectin
Platelet; RGD-containing peptide (Rucinski, B. (1054) 257)

FIS
Stable RNA operon; *Trans*-activation; EF-Tu; Transcription regulation; (*E. coli*) (Bosch, L. (1050) 293)

Upstream activating sequence; Stable RNA synthesis (Verbeek, H. (1050) 302)

rRNA promoter; Upstream activation; Transcriptional regulation; Promoter strength (Josaitis, C.A. (1050) 307)

Fish
Cortisol; Corticosterone; 17β-Oestradiol; Zinc; Metablothionein mRNA; Gene expression (Olsson, P.-E. (1049) 78)

Fish cell
Gene expression; mRNA; Heavy metal; Primer extension; Actinomycin-D; Cycloheximide; Transcriptional control (Zafarullah, M. (1049) 318)

Fish oil
Polyunsaturated fatty acid; Icosapentaenoic acid; Docosahexaenoic acid; Brain lipid; (Rat liver); (Rat brain) (Bourre, J.-M. (1043) 149)

Icosapentaenoate; Docosahexaenoate; Diet supplementation; Prostaglandin E; (Human) (Ferretti, A. (1045) 299)

Neutrophil; Platelet activating factor; Lipoxygenase; Leukotriene (Careaga-Houck, M. (1047) 29)

5′-Flanking region
ATPase, Na^+/K^+-; Gene cloning; Subunit, α1; Transcription initiation site; (Rat) (Yagawa, Y. (1049) 286)

Flash-induced oxidation
Mass spectroscopy; Chloroplast; Thylakoid; Nitrogen formation (Renger, G. (1015) 288)

Flash spectroscopy
Electron transfer; Cytochrome *b*-559; Photosystem II; Reaction center; P680 (Satoh, K. (1016) 121)

Flavin
Nitroxide spin label; Spin label; Reduction; Photoreduction; ESR (Morse II, P.D. (1034) 298)

NADH-quinone reductase; Menadione; Toxicity; (*E. coli*) (Hayashi, M. (1035) 230)

Flavocytochrome b_2
Cytochrome *c*; Semiquinone; Electron exchange; Stopped-flow kinetics (Janot, J.-M. (1016) 165)

Flavodoxin
Circular dichroism; Ferredoxin-$NADP^+$-reductase (Fillat, M.F. (1040) 301)

Flavonoid C-glycosidic linkage
3′,4′,5,7-Tetrahydroxyflavone; Glycosidic linkage; Enzyme-catalyzed de-C-glycosylation; (*C. tinctorius*) (Saito, K. (1035) 340)

Flavoprotein
Glutamate synthase; Amino terminal sequence; Homology; Iron-sulfur protein; Protein structure; (*A. brasilense*) (Vanoni, M.A. (1039) 374)

Flight muscle
Fatty acid binding protein; (Insect); (*S. gregaria*) (Haunerland, N.H. (1047) 233)

Flip-flop
Lipid asymmetry; Aminophospholipid translocase; Prothrombinase; Membrane shedding; Platelet; Erythrocyte (Comfurius, P. (1026) 153)

Ionophore A23187; Calcium ion; Strontium ion; Manganese ion; Ankyrin; Calmodulin; Calpain; Erythrocyte; Phospholipid (Henseleit, U. (1029) 127)

Flow chamber
Giant liposome; Liposome; Model membrane; Antigen insertion; Capsular polysaccharide; Immunofluorescence; ELISA (Decher, G. (1023) 357)

Flow cytometry
LDL receptor activity; Lymphocyte; Interleukin-2; Anti-CD3 antibody (Suzuki, K. (1042) 352)

Growth inhibitor; Intestine; (Human) (Lavagna, C. (1051) 259)

Fluidity
Brown adipose tissue; Phospholipid composition; Mitochondrion; Essential fatty acid deficiency; Cold adaptation; Thermogenic activity; Fluorescence polarization; Time resolved fluorescence anisotropy (Senault, C. (1023) 283)

Dietary fat; HDL; Phosphatidylcholine; Sphingomyelin; Fluorescence polarization; (Human) (Sola, R. (1043) 43)

Flunarizine
Calcium antagonist; Phospholipid phase behavior; Phosphatidylcholine; Phosphatidylethanolamine; Phosphatidylserine; DSC (Thomas, P.G. (1030) 211)

Fluorescence
Mitochondrial respiration; Glycolysis; Respiration and photosynthesis interaction; State I–state II transition (Gans, P. (1015) 150)

Green bacterium; Photosynthesis; Energy transfer; Antenna; (*Chlorobium vibrioforme*); (*Chlorobium limicola*); (*Chloroflexus aurantiacus*) (Wang, J. (1015) 457)

Bacteriochlorophyll; Energy transfer; Photosynthesis; Picosecond spectroscopy; (*Erythrobacter* sp. strain OCh 114) (Shimada, K. (1016) 266)

NMR, ^{1}H-; Gel electrophoresis; Heterologous expression; Blue copper protein; (*P. aeruginosa*) (Van de Kamp, M. (1019) 283)

Partition coefficient; Spin label; Membrane (Lissi, E. (1021) 46)

Poly(ethyleneglycol); Liposome; Surface potential; Aggregation; Electrophoresis; Spectroscopy; ESR (Arnold, K. (1022) 303)

Tumor; Metastatis; Cholesterol; Sterol carrier protein; Membrane fluidity (Kier, A.B. (1022) 365)

Cell membrane potential; Membrane fluidity; Lipid packing; Fluorescence anisotropy (Lakos, Z. (1023) 41)

Liposome; Cytosine arabinoside; Drug delivery; Endosome; Lysosome; Cytotoxicity (Brown, P.M. (1023) 341)

Cholesterol; Dehydroergosterol; Synaptic plasma membrane; Ethanol; Membrane domain; Membrane asymmetry (Wood, W.G. (1025) 243)

Antibody-liposome coupling; Thioether linkage; Immunoliposome-cell targeting, in vitro; Electron microscopy (Schwendener, R.A. (1026) 69)

DPH polarization; Homeoviscous adaptation; Fatty acid composition; (Carp); (Intestinal mucosa) (Lee, J.A.C. (1026) 195)

Pyrethroid; Lipid bilayer (Michelangeli, F. (1028) 49)

Kinetics; Pyrethroid; ATPase, $(Ca^{2+} + Mg^{2+})$- (Michelangeli, F. (1028) 58)

Bacteriorhodopsin; Protein folding; Micelle; Phosphatidylcholine (Renthal, R. (1030) 176)

Synthetic peptide; Solid-phase synthesis (Chersi, A. (1034) 333)

Adriamycin; Anthracycline; pK_a; DNA; Cell nucleus (Frezard, F. (1036) 121)

Calpactin; p11; p36; Calcium (Pigault, C. (1037) 106)

NAD binding domain; Aldolase; (Rabbit muscle) (Chumachenko, Y.V. (1038) 274)

Angiotensin converting enzyme; Guanidine denaturation; Circular dichroism; Inactivation kinetics (Chen, L.-Y. (1039) 61)

Electron microscopy; HPLC; Photoreceptor; Pigment granule; Stentorin; (*S. coerulus*) (Kim, I.-H. (1040) 43)

Fluorescence lifetime; Photoreceptor; Primary photoprocess; Proton dissociation; Stentorin; (*Stentor coeruleus*) (Song, P.-S. (1040) 58)

Glycerol dehydrogenase; Metallo-enzyme; Dissociation constant; Binary complex; (*B. Stearothermophilus*) (Spencer, P. (1040) 130)

Creatine kinase; Energy transfer; Brain isozyme (Grossman, S.H. (1040) 276)

α-Casein; Proteolytic digestion; Tryptophan (Ostoa-Saloma, P. (1041) 146)

Palmitoyl-CoA; Bovine serum albumin; 16-(9-Anthroyloxy)palmitoyl-CoA; Anthracene (Richards, E.W. (1044) 361)

Eukaryotic initiation factor; Protein synthesis; mRNA; m^7G Cap (Goss, D.J. (1050) 163)

Caldesmon; Calmodulin; Tropomyosin; Electron microscopy (Watson, M.H. (1054) 103)

Fluorescence anisotropy
Polycationic biocide; Phospholipid membrane; Polycation–membrane interaction (Ikeda, T. (1021) 56)

Cell membrane potential; Membrane fluidity; Lipid packing; Fluorescence (Lakos, Z. (1023) 41)

Blood platelet; Ionomycin; Membrane fluidity; Platelet activation; Thrombin (Feijge, M.A.H. (1025) 173)

Membrane fluidity; TMA-DPH; Cell culture; Monolayer (Toplak, H. (1028) 67)

Large unilamellar vesicle; Phosphatidylcholine; Plant sterol; Diphenylhexatriene; (Soybean) (Schuler, I. (1028) 82)

Proteolipid; Myelin organization; Phospholipid vesicles; Phospholipid selectivity (Houbre, D. (1029) 136)

Fluorescence decay
Photosynthesis; State transition; Photosystem II; Phycobilisome; Cyanobacterium; (*Synechococcus* sp.) (Mullineaux, C.W. (1015) 231)

Fluorescence induction
Chlorophyll fluorescence; Chlororespiration; (*Mantoniella*); (Prasinophyceae) (Wilhelm, C. (1016) 197)

Excitation energy transfer; Photosystem II; Antenna model (Jennings, R.C. (1016) 259)

Fluorescence lifetime
NMR, ^{19}F-; NMR, ^{13}C-; Calorimetry; Phase transition; Molecular probe; Spin label; Phospholipid vesicle (Bammel, B.P. (1024) 61)

Fluorescence; Photoreceptor; Primary photoprocess; Proton dissociation; Stentorin; (*Stentor coeruleus*) (Song, P.-S. (1040) 58)

Fluorescence microscopy
Phospholipase A_2; Monolayer; Langmuir film balance; Phospholipid; Hydrolysis; Enzyme domain (Grainger, D.W. (1023) 365)

Fluorescence polarization
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Sulfane sulfurtransferase; Rhodanese; Circular dichroism; Fluorescence quenching; Second derivative absorption spectroscopy; Renaturation (Aird, B.A. (1038) 10)

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DDT; Insecticide–membrane interaction; Fluorescence polarization; Membrane fluidity; Cholesterol (Antunes-Madeira, M.C. (1023) 469)

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***N*-Formyl peptide receptor**
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α_2-Adrenergic receptor; Recombinant DNA expression; Rauwolscine; Azidoclonidine; Photolabeling; Transfection; (C127 cell) (Bresnahan, M.R. (1052) 439)

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Fractal filtering
Fractal dimension; Ion channel; Single-channel data (Lew, R.R. (1023) 305)

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Free energy difference
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Free energy perturbation
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Free fatty acid
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Lipoprotein lipase; Apolipoprotein C-II; Triacylglycerol; Chylomicron; (Endothelial cell) (Saxena, U. (1043) 161)

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Membrane fluidity; Polarization; Membrane structure; Chlordecone; Peroxidation (Bondy, S.C. (1026) 213)

LDL; Oxidation; Copper ion; Lipoxygenase; ESR (Kalyanaraman, B. (1035) 286)

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Freeze-fracture
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Protein-liposome conjugate; Streptavidin; Biotin; Vesicle aggregation; Liposome preparation (Loughrey, H.C. (1028) 73)

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Sarcoplasmic reticulum; Protein secondary structure; ATPase, Ca^{2+}-; Hydrogen–deuterium ion exchange; Protein denaturation (Buchet, R. (1023) 107)

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ω-Cyclohexyl fatty acid; Infrared spectroscopy; Elevated pressure; Lipid; Barotropic phase behavior (Hübner, W. (1027) 229)

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Albumin; Free fatty acid; Protein conformation; Exercise; (Human) (Le Gal, J.-M. (1041) 257)

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α-D-Galactosidase; Fabry's disease (Beyer, E. (1038) 386)

β-Fucosidase
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Fucoxanthin
Brown alga; Energy transfer; Linear dichroism; Photosynthesis; (*D. dichotoma*) (Mimuro, M. (1015) 450)

Functional domain
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Furosemide
Beta cell membrane; Sodium ion; Chloride cotransport; Cation transport; Rubidium ion efflux; (Mouse pancreatic β-cell) (Sandström, P.-E. (1023) 191)

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GABA
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Galactolipid
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D-Galactosamine
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α-D-Galactosidase
α-D-Fucosidase; Fabry's disease (Beyer, E. (1038) 386)

β-Galactosidase
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Light harvesting complex II; Polypeptide; Reaction center bleaching; (*Rb. capsulatus*) (Tadros, M.H. (1019) 245)

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Adenylate cyclase; Lipid transfer protein; (Bovine thyroid) (Depauw, H. (1024) 41)

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Bilayer lipid membrane; Electrical breakdown; Monolayer fusion (Melikyan, G.B. (1030) 11)

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Ganglioside GM2
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Ganglioside metabolism
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Ganglioside synthesis
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Gastric mucosal cell
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Gastric peroxidase
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Gastrin
Angiotensin converting enzyme; Gastric mucosal cell; Gastrin antagonist (Dubreuil, P. (1039) 171)

G-protein; Inositol phosphate; Pertussis toxin; Cholera toxin; (Gastric parietal cell) (Roche, S. (1055) 287)

Gastrin antagonist
Angiotensin converting enzyme; Gastric mucosal cell; Gastrin (Dubreuil, P. (1039) 171)

Gastrin-I
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Gated channel
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Gaucher disease
Glucocerebrosidase; β-Glucosidase; Lysosomal storage disease; Sphingolipidosis; Activator protein; (Human spleen) (Aerts, J.M.F.G. (1041) 55)

Glucosylceramidase; Placental activating factor (Vaccaro, A.M. (1047) 57)

GC-MS
Ammoniagenesis; Chronic acidosis; NMR, ^{13}C-; Tricarboxylic acid cycle; (Renal tubule) (Nissim, I. (1033) 194)

***GCN4* expression**
Cis-acting sequence; Translational control; (*S. cerevisiae*) (Miller, P.F. (1050) 151)

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GDP/GTP binding site
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Gelatinase
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Gel electrophoresis
Fluorescence; NMR, ^{1}H-; Heterologous expression; Blue copper protein; (*P. aeruginosa*) (Van de Kamp, M. (1019) 283)

Gel-fluid partitioning
Indocarbocyanine dye; Model membrane; Fluorescence quenching; Partition coefficient; Spin label; ESR (Spink, C.H. (1023) 25)

Gene cloning
ATPase, Na^+/K^+-; 5′-Flanking region; Subunit, α1; Transcription initiation site; (Rat) (Yagawa, Y. (1049) 286)

Gene cluster
Histone gene; Physical mapping; (Mouse) (Rasheed, B.K.A. (1048) 110)

Gene clustering pattern
Ribosomal protein; Protein sequence homology; Cyanobacterium; Chloroplast; (*Synechocystis*) (Sibold, C. (1050) 61)

Gene expression
Heat shock; HSP70 gene family, spermatogenesis; (Rat) (Wiśniewski, J. (1048) 93)

Expression mammalian cell; Sodium ion/glucose cotransporter; Lipofection; COS-7 renal cell; Glucose transporter; Expression vector; DNA transfection; (Simian kidney cell, COS-7) (Birnir, B. (1048) 100)

Insulin like growth factor II; Somatomedin; Promoter sequence; (Rat gene) (Matsuguchi, T. (1048) 165)

α-Amylase; Restriction enzyme map; Cloned DNA; Promoter region; (*Bacillus circulans* DNA); (*E. coli*) (Kim, C.-H. (1048) 223)

Growth hormone; Pituitary; cDNA cloning/(COS-1 cell); (Porcine DNA) (Kato, Y. (1048) 290)

Lipase; Regulatory sequence; Cloning; Liver (Sensel, M.G. (1048) 297)

Demethylation; De novo methylation; X chromosome inactivation; Genomic imprinting; 5-Azacytidine (Cedar, H. (1049) 1)

Fish; Cortisol; Corticosterone; 17β-Oestradiol; Zinc; Metablothionein mRNA (Olsson, P.-E. (1049) 78)

Oligonucleotide; Antisense nucleic acid (Hélène, C. (1049) 99)

Non-ribosomal nucleolar protein; Nucleolin; N038; (Chicken) (Maridor, G. (1049) 126)

Ricin; B-chain; Galactose binding site; Plant toxin; Site-directed mutagenesis (Vitetta, E.S. (1049) 151)

Fish cell; mRNA; Heavy metal; Primer extension; Actinomycin-D; Cycloheximide; Transcriptional control (Zafarullah, M. (1049) 318)

Gene fusion
small cytoplasmic RNA; Deoxycytidylate deaminase; (*B. subtilis*) (Struck, J.C.R. (1050) 80)

Gene mapping
Phosphorylase kinase γ subunit; Human chromosome 7; PYKG1 (Jones, T.A. (1048) 24)

Gene product
Peripheral LHC II; Type 2 *cab-II* gene; Acylation; Light harvesting complex; Photosystem II (Jansson, S. (1019) 110)

Gene regulation
Topoisomerase I; mRNA synthesis; (Human fibroblast) (Romig, H. (1048) 274)

Chloroplast gene; Cell cycle; Chloroplast transcription; Posttranscriptional control (Leu, S. (1049) 311)

Phosphoglycerate kinase; Spermatogenesis; Cell culture (Tamaru, M. (1049) 331)

Gene regulation pathway
Phorbol ester; Lymphocyte, B, maturation (Murphy, J.J. (1049) 261)

Gene structure
Lipoprotein lipase; Polymorphic map; (Human) (Oka, K. (1049) 21)

Chromosomal protein; Chromatin structure; DNA–protein interaction; High mobility group protein (Bustin, M. (1049) 231)

Genetic control
Mitochondrion; Ubiquinol-cytochrome *c* oxidoreductase; Cytochrome bc_1 complex; (Yeast) (Schmitt, M.E. (1018) 119)

Genetic variant
Serum albumin; Albumin; Isoelectric focusing; HPLC; Amino acid sequence; (Human) (Minchiotti, L. (1039) 204)

Genome mutation
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Genome sequence
Rat insulin-like growth factor II; Random regional repetition; Intergenic region (Ikejiri, K. (1049) 350)

Genomic DNA sequence
Glutamate dehydrogenase; Multiple gene locus (Amuro, N. (1049) 216)

Genomic imprinting
Demethylation; De novo methylation; X chromosome inactivation; Gene expression; 5-Azacytidine (Cedar, H. (1049) 1)

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Fatty acid synthesis; Insulin concentration (Harrison, L.M. (1046) 202)

Gentamicin
Brush-border membrane; Vesicle aggregation; Aminoglycoside; *N*-Acetylneuraminic acid; Nephrotoxicity; (Rat kidney) (Aramaki, Y. (1023) 352)

Geraniol
Catabolism; Terpene; Plant cell culture (Berger, R.G. (1055) 234)

Germinating seed
Alfalfa; β-Amylase; Isoform (Kohno, A. (1035) 325)

Giant liposome
Liposome; Model membrane; Flow chamber; Antigen insertion; Capsular polysaccharide; Immunofluorescence; ELISA (Decher, G. (1023) 357)

Gibbs energy
Heat capacity; Enthalpy; Entropy; Globular protein; Stabilization (Khechinashvili, N.N. (1040) 346)

Glass effect
Red blood cell; Human eythrocyte; Shape transformation; Artificial surface (Eriksson, L.E.G. (1036) 193)

GLC
Benzylamine oxidase; (Pig plasma) (Buffoni, F. (1040) 77)

Glial cell
7β-Hydroxycholesterol; Acyl-CoA : cholesterol acyltransferase; Cytotoxicity (Kupferberg, A. (1046) 106)

Glial development
Cell culture; Myelination; Spinal cord; (Rat glial cell) (Van der Pal, R.H.M. (1051) 159)

Glioma
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Plasmalogen; Fatty acid, $(n-3)$ and $(n-6)$; Polyunsaturated fatty acid; Phospholipid; Cell culture (Thomas, S.E. (1044) 349)

Glioma antigen
Glioma cell line; Glioma xenograft; Ganglioside metabolism; (Human glioma) (Fredman, P. (1045) 239)

Glioma cell
Calcium ion activated potassium ion channel; Potassium ion channel; *n*-Alkanol; Charybdotoxin; Calcium ionophore; Ionophore A23187 (Tas, P.W.L. (1023) 436)

Glioma cell line
Glioma antigen; Glioma xenograft; Ganglioside metabolism; (Human glioma) (Fredman, P. (1045) 239)

Glioma xenograft
Glioma antigen; Glioma cell line; Ganglioside metabolism; (Human glioma) (Fredman, P. (1045) 239)

Globular protein
Heat capacity; Enthalpy; Entropy; Gibbs energy; Stabilization (Khechinashvili, N.N. (1040) 346)

Glomerular mesangium
Signal transduction; Second messenger system; Calcium; Calcium channel; Endothelium (Simonson, M.S. (1055) 63)

Glomerulus
Proteoglycan; Sulfation; Extracellular matrix; (Rat) (Templeton, D.M. (1033) 235)

Glucagon
Catecholamine; Urea cycle; Calcium; *N*-Acetylglutamate synthase (Johnston, J.D. (1033) 85)

Vasopressin; Protein kinase C; 8-bromo cyclic AMP; Norepinephrine; Phorbol ester; (Rat hepatocyte) (Pittner, R.A. (1043) 211)

Insulin; Phospholipase C; Vasopressin; Lithium ion; Inositol phosphate; (Rat hepatocyte) (Pittner, R.A. (1043) 218)

Gluconoegenesis; Glycogenolysis; Isoproterenol; Phenylephrine; Adrenergic agonist; (Ovine hepatocyte) (Faulkner, A. (1052) 229)

Glucan
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Glucoamylase
Enzyme kinetics; Thermal inactivation (Munch, O. (1041) 111)

Glucocerebrosidase
Gaucher disease; β-Glucosidase; Lysosomal storage disease; Sphingolipidosis; Activator protein; (Human spleen) (Aerts, J.M.F.G. (1041) 55)

Glucocorticoid
Fatty acid synthase; Choline-phosphate cytidylyltransferase; Hormone action; Lung surfactant; (Fetal rat lung) (Xu, Z.-x. (1044) 70)

Choline-phosphate cytidyltransferase; Development; Hormone action; Phospholipid synthesis; Lung surfactant; (Fetal rat lung) (Rooney, S.A. (1044) 385)

Ribosome biosynthesis; Lymphosarcoma cell; Nucleolin; Ribosomal protein; Posttranscriptional control; Translational control (Meyuhas, O. (1049) 38)

Epidermal growth factor receptor; Salivary gland; (Human) (Kyakumoto, S. (1053) 204)

Glucocorticoid action
Mono(ADP-ribosyl)transferase; *meta*-Iodobenzylguanidine; Guanidino compounds; (Mouse leukemia cell) (Smets, L.A. (1054) 49)

Glucocorticoid induction
Fatty acid synthesis; Fatty acid synthetase; Surfactant synthesis; Lung surfactant; (Human fetal lung) (Gonzales, L.W. (1042) 1)

Glucocorticoid receptor
Insulin-induced hypoglycemia; (Rat liver) (Matić, G. (1051) 192)

Glucocorticosteroid
Calcium ion; Leukotriene C_4; Antigen; (Rat basophilic leukemia 2H3 cell) (Her, E. (1051) 203)

Glucolipid
DSC; FTIR; Infrared spectroscopy; X-ray diffraction; Nonbilayer-forming lipid; (*A. laidlawii* B) (Lewis, R.N.A.H. (1026) 21)

Gluconeogenesis
Calcium ion–fatty acid interaction; Fatty acid; (Rat liver) (González-Manchón, C. (1051) 215)

***N*-D-Gluco-*N*-methylalkanamide**
Nonionic surfactant; Alkylmethylglucamide (Walter, A. (1029) 67)

Gluconoegenesis
Glycogenolysis; Glucagon; Isoproterenol; Phenylephrine; Adrenergic agonist; (Ovine hepatocyte) (Faulkner, A. (1052) 229)

Glucosamine-6-phosphate deaminase
Vicinal sulfhydryl; Sulfhydryl modification; Zinc binding (Altamirano, M.M. (1038) 291)

Glucose
Insulin release; Beta cell; Calcium ion transport; (Rat insulinoma) (Hoenig, M. (1022) 333)

Anomeric specificity; Phosphorylase; Protein phosphatase; (Hepatocyte) (Bollen, M. (1038) 141)

Electrophysiology; Noradrenaline; α_2-Adrenoceptors; (Mouse pancreatic β cells) (Joffre, M. (1052) 285)

Glucose effect
D-Glucose transport; Sodium ion dependence; Insulin; Streptozotocin-induced diabetes; Brush-border membrane vesicle; (Kidney) (Yasuda, H. (1021) 114)

Glucose enzyme III
Lactose transport; Carrier mutant; *lacY* (Wilson, T.H. (1029) 113)

Glucose leakage
Glucose transport; Liposome; Membrane filtration; Molecular-sieve chromatography; Proteoliposome (Andersson, L. (1030) 258)

Glucose metabolism
NMR, ^{31}P-; Glutamine metabolism; Phosphate-activated glutaminase (Sri-Pathmanathan, R.M. (1051) 131)

Adriamycin; Daunomycin; Actinomycin-D; Nucleoside triphosphate; Cell cycle distribution; (Human breast cancer cell) (Neeman, M. (1052) 255)

Glucose oxidase
Antibody; Cytotoxic action (Muzykantov, V.R. (1053) 27)

Glucose 6-phosphate
Calcium ion uptake; MgATP dependence; Microsome; (Rat kidney) (Fulceri, R. (1022) 129)

Glucose-6-phosphate dehydrogenase synthesis
mRNA solution assay; cyclic AMP; Nutrition (Kim, M.-H. (1049) 177)

Glucose phosphorylation
Mitochondrion; (Pancreatic islet) (Rasschaert, J. (1015) 353)

Glucose transport
Vesicle preparation; Membrane orientation; Amino acid transport; (Teleost intestine) (Drai, P. (1022) 251)

Sodium ion cotransport; Methyl glucopyranoside; (Rat tracheal epithelium) (Saumon, G. (1023) 313)

Transport kinetics; Glycosylation; (Human erythrocyte) (Feugeas, J.-P. (1030) 60)

Glucose leakage; Liposome; Membrane filtration; Molecular-sieve chromatography; Proteoliposome (Andersson, L. (1030) 258)

Insulin; TLCK; ATEE; Tyrosine phosphorylation (Kasahara, T. (1054) 89)

D-Glucose transport
Sodium ion dependence; Insulin; Glucose effect; Streptozotocin-induced diabetes; Brush-border membrane vesicle; (Kidney) (Yasuda, H. (1021) 114)

Sodium ion/D-glucose cotransporter; Brush-border membrane vesicle; 3-*O*-Methylglucose; Kinetics; (Human fetus) (Malo, C. (1022) 8)

Glucose transporter
Expression mammalian cell; Sodium ion/glucose cotransporter; Lipofection; COS-7 renal cell; Gene expression; Expression vector; DNA transfection; (Simian kidney cell, COS-7) (Birnir, B. (1048) 100)

Cell mutant; Tritium suicide; Colony autoradiography; (Chinese hamster ovary cell) (Hasegawa, K. (1051) 221)

Glucose uptake
2-Deoxy-D-glucose uptake; Hexokinase activity; ATP; (Cultured human muscle cells) (Jacobs, A.E.M. (1051) 230)

α-Glucosidase
L-Ascorbic acid; L-Ascorbic acid α-glucoside; Transglucosylation (Yamamoto, I. (1035) 44)

β-Glucosidase
β-Galactosidase; β-Fucosidase; Cellobiase; Lactase; Enzyme kinetics; (*H. grisea*) (Peralta, R.M. (1033) 243)

Enzyme kinetics; (*T. reesei*) (Estrada, P. (1033) 298)

Sphingolipid; Transition-state analogue; Enzyme inhibitor; (Human) (Greenberg, P. (1039) 12)

Chemical modification; Carbodiimide; EAC; Carboxyl; Catalytic mechanism; (*S. commune*) (Clarke, A.J. (1040) 145)

Gaucher disease; Glucocerebrosidase; Lysosomal storage disease; Sphingolipidosis; Activator protein; (Human spleen) (Aerts, J.M.F.G. (1041) 55)

cDNA cloning; Restriction enzyme analysis; (*T. emersonii* gene) (Morrison, J. (1049) 27)

Glucosylceramidase
Liposome; Enzyme activation; Enzyme-liposome association (Vaccaro, A.M. (1033) 73)

Gaucher disease; Placental activating factor (Vaccaro, A.M. (1047) 57)

Glucosyltransferase
Dental caries; Glucan; *(Strep. sobrinus)* (Takada, K. (1033) 91)

Glutamate
Glutamine; Ammoniagenesis; Valproate; (Human kidney) (Martin, G. (1033) 261)

Glycerol-3-phosphate dehydrogenase (NAD^+); Salt tolerance; Osmoregulation; (*D. hansenii*) (Nilsson, A. (1034) 180)

Glutamate dehydrogenase
Genomic DNA sequence; Multiple gene locus (Amuro, N. (1049) 216)

Glutamate synthase
Amino terminal sequence; Homology; Iron-sulfur protein; Flavoprotein; Protein structure; (*A. brasilense*) (Vanoni, M.A. (1039) 374)

Glutamine
Glutamate; Ammoniagenesis; Valproate; (Human kidney) (Martin, G. (1033) 261)

Plasma membrane; Amino acid transport; (Human fibroblasts) (Dall'Asta, V. (1052) 106)

Glutamine metabolism
NMR, ^{31}P-; Glucose metabolism; Phosphate-activated glutaminase (Sri-Pathmanathan, R.M. (1051) 131)

ε-(γ-Glutamyl)lysine
Transglutaminase; Polyamine; Methylamine; Tumor growth (Hand, D. (1033) 57)

γ-Glutamyltransferase
Glutathione; Cold stress; Exercise; (Rat liver) (Ohno, H. (1033) 19)

Glutaraldehyde
ATPase, H^+/K^+-; $C_{12}E_8$; Crosslink; Subunit; Soluble enzyme (Rabon, E.C. (1039) 277)

Glutathione
Aging; Mitochondrial function; Superoxide radical; Lipid peroxidation; Cardiac hypertrophy; (Senescent rat heart) (Muscari, C. (1015) 200)

γ-Glutamyltransferase; Cold stress; Exercise; (Rat liver) (Ohno, H. (1033) 19)

Mitochondrion; Hydrogen peroxide; Monoamine oxidase; Calcium efflux; (Rat brain) (Sandri, G. (1035) 300)

Cadmium toxicity; Thiol; Lipid peroxidation; Lipoic acid; Thioctic acid; (Rat hepatocytes) (Müller, L. (1052) 386)

Glutathione depletion
Nitroxide metabolism; Ascorbate; ESR; (Rat liver cytosol) (Iannone, A. (1034) 290)

Glutathione peroxidase
Selenium; Selenoprotein; Subcellular fraction; (Rat liver) (Behne, D. (1033) 219)

Polychlorinated biphenyl; Thiobarbituric acid reactive substance; Lipid peroxidation; Antioxygenic activity; (Rat) (Saito, M. (1046) 301)

Selenium deficiency; Posttranscriptional regulation; Transcription rate (Toyoda, H. (1049) 213)

Glutathione redox
Thiol redox; Phosphate transport; Nicotinamide; Diamide; Brush-border membrane; (Kidney) (Suzuki, M. (1021) 85)

Glutathione *S*-transferase
Development; (Human lung); (Human kidney) (Beckett, G.J. (1036) 176)

Isoenzyme; Organ culture; (Human); (Lung) (Cossar, D. (1037) 221)

Ligand binding; Inhibitor binding (Young, P.R. (1038) 114)

***N*-Glycan**
Transferrin receptor; Lectin chromatography; Plasmacytoma (Gleeson, P.A. (1036) 47)

Glycated polylysine
Superoxide anion; Chemiluminescence; Iron-glycated polylysine complex; Lipid peroxidation (Sakurai, T. (1043) 27)

Glycation
Maillard reaction; Ascorbic acid; Lens crystallin; Cataract; Protein modification (Slight, S.H. (1038) 367)

D-Glyceraldehyde-3-phosphate dehydrogenase
Guanidine denaturation; Dissociation; Aggregation; Unfolding; Inactivation (Liang, S.-J. (1038) 240)

Thermal denaturation; Dissociation; Aggregation; Inactivation (Lin, Y.-Z. (1038) 247)

Glyceraldehyde-3-phosphate dehydrogenase (NADP)
Chloroplast isoenzyme; Complete primary structure; Structural relationship; (Spinach) (Ferri, G. (1041) 36)

Glycerol
Erythrocyte membrane; Permeability; Water; Diol; Urea; Ethylene glycol; Reflection coefficient (Toon, M.R. (1022) 57)

Dipalmitoylphosphatidylcholine; Liposome; Merocyanine 540; Permeability (Biondi, A.C. (1028) 43)

Glycerol dehydrogenase
Metallo-enzyme; Dissociation constant; Fluorescence; Binary complex; (*B. Stearothermophilus*) (Spencer, P. (1040) 130)

Glycerolipid
Lysophosphatidylcholine; Microsome; Membrane fluidity; Respiratory distress; (Rabbit) (Casals, C. (1023) 290)

PAF; Acetate hydrolysis; Lipoprotein lipase; (De novo synthesis) (Blank, M.L. (1042) 153)

Glycerol 3-phosphate
Dihydroxyacetone phosphate; Phospholipid; Clofibrate; Di(2-ethylhexyl)phthalate; Peroxisome; (Rat liver) (Horie, S. (1042) 294)

Glycerol-3-phosphate dehydrogenase (NAD^+)
Salt tolerance; Glutamate; Osmoregulation; (*D. hansenii*) (Nilsson, A. (1034) 180)

Glycerophospholipid
Bile; Cholesterol; Monensin; Membrane (Casu, A. (1043) 113)

Glyceryl ether
Glycol ether; Monooxygenase; Pterin (Kaufman, S. (1040) 19)

PAF; Metabolism; (*T. pyriformis*) (Lekka, M.E. (1042) 217)

Glyceryl monooleate
Lipid intrinsic potential; Monolayer potential; Bilayer potential; Gramicidin A (Wang, J. (1024) 10)

Glycine
Raji cell; L-Methionine; L-Homocystine; Folate; Thymidylic acid; Serine (Fell, D. (1033) 80)

Glycogenolysis
Prostaglandin; Sex difference; (Rat hepatocyte) (Okumura, T. (1051) 300)

Gluconoegenesis; Glucagon; Isoproterenol; Phenylephrine; Adrenergic agonist; (Ovine hepatocyte) (Faulkner, A. (1052) 229)

Hyperthyroid heart; Inorganic phosphate; Glycolysis; Ion pump; NMR, ^{31}P-; (Rat heart) (Seymour, A.-M.L. (1055) 107)

Cardiac lipolysis; Tissue oxygenation; Fluorocarbon; Deoxynojirimycin (Hülsmann, W.C. (1055) 189)

Glycolate
Oxalate formation; Glycolate dehydrogenase; Glycolate oxidase; Xanthine oxidase; Lactate dehydrogenase (Yanagawa, M. (1036) 24)

Glycolate dehydrogenase
Oxalate formation; Glycolate; Glycolate oxidase; Xanthine oxidase; Lactate dehydrogenase (Yanagawa, M. (1036) 24)

Glycolate oxidase
Oxalate formation; Glycolate; Glycolate dehydrogenase; Xanthine oxidase; Lactate dehydrogenase (Yanagawa, M. (1036) 24)

Glycol ether
Glyceryl ether; Monooxygenase; Pterin (Kaufman, S. (1040) 19)

Glycolipid
Polar lipid; Phospholipid; Diether analogue, C_{20}-C_{25}; Phosphoglycolipid; (*Halococcus*) (Moldoveanu, N. (1046) 127)

Glycolipid transfer protein
Intervesicular lipid transfer; Glycosphingolipid; Protein purification (Brown, R.E. (1044) 77)

Glycolysis
Mitochondrial respiration; Fluorescence; Respiration and photosynthesis interaction; State I–state II transition (Gans, P. (1015) 150)

Metabolic regulation; Plant cell culture; Enzyme kinetics; (*C. roseus*) (Kubota, K. (1036) 138)

Hyperthyroid heart; Inorganic phosphate; Glycogenolysis; Ion pump; NMR, ^{31}P-; (Rat heart) (Seymour, A.-M.L. (1055) 107)

Glycolytic enzyme
Macromolecular interaction; Dynamism; Modulation; Specificity (Neuzil, J. (1037) 307)

Membrane–protein interaction; Erythrocyte membrane; Band 3 protein (Harris, S.J. (1038) 306)

Glycophorin
NMR, ^{2}H-; Boundary lipid, artificial; Lipid–protein interaction (Sunamoto, J. (1024) 220)

Electroinsertion; Antigen CD4; Recombinant CD4; Erythrocyte membrane (Mouneimne, Y. (1027) 53)

Glycophorin A
Lipid oxidation; Tritium labeling; Proteolysis; Oxidative damage; (Human erythrocyte membrane) (Beppu, M. (1023) 413)

Glycoprotein
Sodium ion channel; Phosphorylation; Antibody; (*Drosophila*); (Central nervous system) (Gordon, D. (1026) 80)

P-glycoprotein; Multidrug resistance; Dimerization; Radiation inactivation; (CHO cell) (Boscoboinik, D. (1027) 225)

Zinc-α_2-glycoprotein; Seminal plasma; Amino acid sequence; Carbohydrate content; (Human) (Ohkubo, I. (1034) 152)

Tumor growth inhibition; Protein conformation; Cytotoxicity (Miwa, N. (1034) 309)

Trehalase; Lysosomal enzyme; (*D. discoideum*) (Gupta, J. (1035) 243)

Acylation; Glycosylphosphatidylinositol; Membrane anchor; (*S. cerevisiae*) (Vai, M. (1038) 277)

Lectin; Agglutinin; Invertebrate lectin; Disulfide bond; (Acorn barnacle) (Muramoto, K. (1039) 52)

CD9; Myristylation (Seehafer, J.G. (1039) 218)

Prostaglandin E_1 receptor; Tunicamycin; Glycosylation; Translocation; (Mastocytoma P-815 cells) (Yatsunami, K. (1051) 94)

Glycoprotein IIb-IIIa
Platelet; Glycoprotein IV; Fibrinogen; Thrombospondin (Beiso, P. (1033) 7)

Disintegrin; Integrin; Amino acid sequence; Recognition site; (Human platelet) (Williams, J. (1039) 81)

Glycoprotein IV
Platelet; Glycoprotein IIb-IIIa; Fibrinogen; Thrombospondin (Beiso, P. (1033) 7)

β_1-Glycoprotein, pregnancy specific
cDNA cloning; Carcinoembryonic antigen gene family; (Human placenta) (Arakawa, F. (1048) 303)

Glycosaminoglycan synthesis
Forskolin; Xyloside; (Chick chondrocyte) (Hu, L.-M. (1051) 112)

β-Glycoside
Monoclonal antibody; *N*-Acetylneuraminic acid (Kawamura, A. (1033) 201)

Glycosidic linkage
Flavonoid C-glycosidic linkage; 3′,4′,5,7-Tetrahydroxyflavone; Enzyme-catalyzed de-C-glycosylation; (*C. tinctorius*) (Saito, K. (1035) 340)

Glycosphingolipid
Interdigitation; Phospholipid bilayer; NMR, ^{2}H-; ESR (Florio, E. (1025) 157)

Glycolipid transfer protein; Intervesicular lipid transfer; Protein purification (Brown, R.E. (1044) 77)

Cell population; Ganglioside; (Human thyroid) (Bouchon, B. (1051) 1)

Glycosylated β-subunit
Membrane glycoprotein; Cation ATPase; Acid secretion; (Gastric microsome) (Okamoto, C.T. (1037) 360)

Glycosylation
Glucose transport; Transport kinetics; (Human erythrocyte) (Feugeas, J.-P. (1030) 60)

D-Galactosamine; α_1-Antitrypsin; α_1-Acid glycoprotein (Gross, V. (1036) 143)

Apolipoprotein B; Proteolytic cleavage; LDL receptor; (Hepatoma cell line) (La Belle, M. (1046) 288)

Glycosylation
Prostaglandin E_1 receptor; Tunicamycin; Translocation; Glycoprotein; (Mastocytoma P-815 cells) (Yatsunami, K. (1051) 94)

***N*-Glycosylation**
Dolichol kinase; Inner mitochondrial membrane (Ardail, D. (1024) 131)

Glycosylation pattern
Vitronectin; Cell adhesive glycoprotein; Molecular diversity; Horseradish peroxidase-lectin; Species specificity (Kitagaki-Ogawa, H. (1033) 49)

Glycosylphosphatidylinositol
Glycoprotein; Acylation; Membrane anchor; (*S. cerevisiae*) (Vai, M. (1038) 277)

Glycyl-D-phenylalanine-2-naphthylamide
Lysosome; Cytotoxicity (Jadot, M. (1027) 205)

Glycyrrhetic acid
Glycyrrhetinate dehydrogenase; 3β-Hydroxysteroid dehydrogenase; (Rat liver microsome) (Akao, T. (1042) 241)

Glycyrrhetinate dehydrogenase
Glycyrrhetic acid; 3β-Hydroxysteroid dehydrogenase; (Rat liver microsome) (Akao, T. (1042) 241)

3β-Hydroxysteroid dehydrogenase; 3α-Hydroxysteroid dehydrogenase; (Rat liver microsome) (Akao, T. (1046) 271)

Glyoxal
Arginine; Dehydrogenation; Enzyme modification; Salicylate hydroxylase; (*P. putida*) (Suzuki, K. (1040) 327)

Glyoxylate cycle
Brown fat; Isocitrate lyase; Malate synthase; Peroxisome; Hibernation (Davis, W.L. (1051) 276)

GM2 derivative
Binding epitope; Ganglioside GM2; Monoclonal antibody; TLC immunostaining (Karlsson, G. (1043) 267)

cyclic GMP
Magnesium ion; Dichlorophosphonazo III; Photoreceptor rod; Gated channel (Wohlfart, P. (1022) 283)

Guanylate cyclase; Atrial natriuretic peptide; ATP (Chang, C.-H. (1052) 159)

Protein kinase; Signal processing; (*Dictyostelium*) (Wanner, R. (1053) 179)

cGMP-binding protein
DNA; Synthetic oligodeoxyribonucleotide; (*D. discoideum*) (Parissenti, A.M. (1040) 294)

Golgi apparatus
Retinol; Transition element; Endoplasmic reticulum; Membrane traffic; Cell-free system (Nowack, D.D. (1051) 250)

Golgi membrane
Streptozotocin diabetes; Spin label; ESR; Membrane fluidity; (Rat) (Kordowiak, A.M. (1022) 296)

Gonadotropin
Chorionic gonadotropin; (Human); (Rat); (Testicle) (Browne, E.S. (1033) 226)

Gouy-Chapman model
Protein–lipid interaction; pH dependence; Melittin; Surface potential (Stankowski, S. (1025) 164)

GPIIb/IIIa
Aggregation; Calcium ion concentration, intracellular; Cytoskeleton; TXB_2; (Human platelet) (Yamaguchi, A. (1054) 8)

G-protein
Endotoxin; Endotoxin tolerance; Macrophage; (*S. enteritidis*) (Coffee, K.A. (1035) 201)

Differentiation; Phosphoinositidase C; (U937 monocyte); (Human monoblastic cell line) (Pollock, K. (1051) 71)

Isoprenaline; Adrenergic hormone; (Guinea pig heart) (Kemp, P.R. (1051) 293)

Phosphatidylinositol-phosphate kinase; (Rat liver plasma membrane) (Urumow, T. (1052) 152)

Cholera toxin; Pertussis toxin; Phototransduction; Invertebrate photoreceptor; (Octopus) (Tsuda, M. (1052) 204)

DNA-excess solution hybridization; mRNA; Transmembrane signaling; Antisense DNA probe; (Rat) (Rapiejko, P.J. (1052) 348)

Phospholipase C; Brain membrane; Detergent (Carter, H.R. (1054) 129)

Neutrophil; Electropermeabilization; Respiratory burst; Fluoride; Protein kinase C (Hartfield, P.J. (1054) 176)

GTP-binding protein; Neutrophil; ADP-ribosylation (Khachatrian, L. (1054) 237)

Macrophage; Signal transduction; Arachidonic acid; Receptor; (Rat peritoneum) (DuBourdieu, D.J. (1054) 326)

Retinol; GTP; Transitional endoplasmic reticulum (Zhao, J. (1055) 230)

Pertussis toxin; Calcium ion mobilization; Signal transduction; Parotid cell; (Rat) (Ambudkar, I.S. (1055) 259)

Gastrin; Inositol phosphate; Pertussis toxin; Cholera toxin; (Gastric parietal cell) (Roche, S. (1055) 287)

Gramicidin
Phosphatidylcholine; Bilayer; NMR, ^2H- (Morrow, M.R. (1023) 197)

Ion transport; Binary lipid; pH control (Mittler-Neher, S. (1026) 167)

Gramicidin A
Lipid intrinsic potential; Monolayer potential; Bilayer potential; Glyceryl monooleate (Wang, J. (1024) 10)

Lipid bilayer; NMR, ^{13}C-; Ion binding (Smith, R. (1026) 161)

Gramicidin S
Melittin; Alamethicin; Hemolysis; Liposome (Portlock, S.H. (1030) 1)

Granule membrane
Plasma membrane; Calmodulin-binding protein; Two dimensional gel electrophoresis; Membrane purification (De Block, J. (1030) 134)

Granulocyte
Cytoskeleton; Hydrogen-ion concentration; Cell movement (Tonetti, M. (1054) 154)

Green bacterium
Fluorescence; Photosynthesis; Energy transfer; Antenna; (*Chlorobium vibrioforme*); (*Chlorobium limicola*); (*Chloroflexus aurantiacus*) (Wang, J. (1015) 457)

Group translocation
Transmembrane solute transport; Permease; Energy coupling; Evolution; Transport, active; Phosphotransferase system (Saier, Jr., M.H. (1018) 248)

Growth
Cholesterol metabolism; Cholesterol distribution; (Human skin fibroblast) (Mazzone, T. (1047) 180)

Sphingosine; Sphinganine; Sphingolipid; Protein kinase C; Cytotoxicity; (Chinese hamster ovary cell) (Stevens, V.L. (1051) 37)

Isoproterenol; Protein synthesis; Parotid gland (López Solís, R.O. (1054) 311)

Growth factor
Activin B; Activin A; Protein purification (Schmelzer, C.H. (1039) 135)

Epidermal growth factor; Transforming growth factor-α; DNA synthesis; Immunoblotting; (Rat hepatocytes in primary culture) (Gohda, E. (1053) 21)

Tyrosine phosphorylation; Signal transduction; Insulin; EGF; FGF (Kyriakis, J.M. (1054) 73)

Growth hormone
Pituitary; Gene expression; cDNA cloning/(COS-1 cell); (Porcine DNA) (Kato, Y. (1048) 290)

Insulin resistance; (ob/ob Mouse); (Adipocyte) (Roupas, P. (1052) 341)

Growth inhibition
Tetradecylthioacetic acid; Dexamethasone; Peroxisomal β-oxidation; Insulin; (Morris hepatoma cell) (Norrheim, L. (1051) 319)

Growth inhibitor
Flow cytometry; Intestine; (Human) (Lavagna, C. (1051) 259)

Growth temperature
Fatty acid; Calcium; Polar acyl chain; (Thermophilic bacteria) (Martins, L.O. (1045) 17)

GSH-dependent PGH_2 to PGE_2 isomerase
Prostaglandin E_2; Reduced glutathione; Prostacyclin; Thromboxane; (Fetal lung) (Bellan, J.A. (1044) 315)

GTP
Retinol; Transitional endoplasmic reticulum; G-protein (Zhao, J. (1055) 230)

GTPase
Protein biosynthesis; GTP-binding protein; Site-directed mutagenesis (Gümüsel, F. (1050) 215)

GTP-binding protein
Synaptic vesicle; Synaptophysin; (Bovine brain) (Matsuoka, I. (1026) 99)

Protein biosynthesis; GTPase; Site-directed mutagenesis (Gümüsel, F. (1050) 215)

Purinergic site; Phospholipase C; Guanine nucleotide; Inositol metabolism; (Human leukemia cell) (Cowen, D.S. (1053) 195)

G-protein; Neutrophil; ADP-ribosylation (Khachatrian, L. (1054) 237)

Guanidination
Erythropoietin; Chemical modification (Satake, R. (1038) 125)

Guanidine analog
Posttranscriptional modification; Cancer therapy; ADP-ribosyltransferase (Loesberg, C. (1037) 92)

Guanidine denaturation
D-Glyceraldehyde-3-phosphate dehydrogenase; Dissociation; Aggregation; Unfolding; Inactivation (Liang, S.-J. (1038) 240)

Angiotensin converting enzyme; Fluorescence; Circular dichroism; Inactivation kinetics (Chen, L.-Y. (1039) 61)

Guanidine hydrochloride
Cellulase; Cellobiohydrolase I; Denaturation; Renaturation; Cellulose (Woodward, J. (1037) 81)

Circular dichroism; Ovalbumin, succinylated and acetylated; Lysine modification; Secondary structure; Urea; pH (Batra, P.P. (1040) 102)

Guanidino compounds
Mono(ADP-ribosyl)transferase; *meta*-Iodobenzylguanidine; Glucocorticoid action; (Mouse leukemia cell) (Smets, L.A. (1054) 49)

Guanine
Elongation factor 2; Nucleotide, protein binding (Bilgin, N. (1048) 217)

Guanine modification
Spin labeling; DNA modification (Weygand-Durasevic, I. (1048) 38)

Guanine nucleotide
Purinergic site; Phospholipase C; GTP-binding protein; Inositol metabolism; (Human leukemia cell) (Cowen, D.S. (1053) 195)

Guanine nucleotide binding
Elongation factor Tu; *ras* p21 (Jurnak, F. (1050) 209)

Guanine nucleotide-binding protein
Cholera toxin; ADP-ribosylation; ADP-ribosylation factor; Adenylyl cyclase (Noda, M. (1034) 195)

Arachidonic acid liberation; Phospholipase A_2; Protein kinase C; Platelet; (Rabbit) (Akiba, S. (1044) 291)

Phospholipase C; Protein kinase C; Signal transduction; Calcium ion; Inositol phosphate; Phosphatidylinositol kinase; Fluoride (Fain, J.N. (1053) 81)

Guanylate cyclase
Radiation inactivation; Nitro compound; Subunit interaction; (Rat lung) (Saheki, S. (1051) 306)

Atrial natriuretic peptide; cGMP; ATP (Chang, C.-H. (1052) 159)

Olfaction; Cilium; Trachea (Steinlen, S. (1054) 69)

Gut
ATPase, Cl^--stimulated; Chloride stimulated ATPase; Sulfhydryl agent; Basolateral plasma membrane; (*Aplysia*) (Gerencser, G.A. (1023) 475)

H

Hageman factor
Kallikrein-kinin system; Bacterial proteinase; Pseudomonal infection; Pseudomonal elastase; (*P. aeruginosa*) (Yamamoto, T. (1038) 231)

Halomethyldihydrocoumarin
Thrombin; Plasmin; Plasminogen activator; Suicide substrate (Mor, A. (1038) 119)

Halophile
Electron transfer protein; Ferredoxin; Cytochrome *c*; Purple bacterium; (*R. salinarum*) (Meyer, T.E. (1017) 118)

Halorhodopsin
Bacteriorhodopsin; Ion pump; (*H. halobium*) (Keszthelyi, L. (1018) 260)

Haptoglobin related gene product
Human pseudogene (Fawcett, H.A.C. (1048) 187)

Harderian gland
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HDL
Cholesterol efflux; Sphingomyelin degradation; Sphingomyelinase; (Human fibroblast) (Slotte, J.P. (1025) 152)

Cholesterol exchange; Red blood cell; LDL; Membrane lipid (Gold, J.C. (1027) 85)

Plasma protein; Apolipoprotein; Monoclonal antibody; Affinity chromatography; (Rat) (Blatter, M.-C. (1042) 19)

Lipoprotein receptor; Species difference; Hepatic membrane; (Guinea pig) (Fernandez, M.L. (1042) 142)

Apolipoprotein A-I; Nephrosis; Blood protein; mRNA level; (Rat plasma) (Marshall, J.F. (1042) 271)

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Apolipoprotein A-I; Apolipoprotein variant; Protein characterization; (Human) (Takada, Y. (1043) 169)

Cholesterol ester metabolism; Adrenal; Lipid storage droplet; Steroidogenesis; Cholesterol esterase (Sparrow, C.P. (1043) 203)

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Lipoprotein metabolism; Methylavidin, [^{14}C]-; Biotinyl-HDL_3; (Human plasma) (Daerr, W.H. (1043) 311)

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Lipoprotein uptake; Lipoprotein metabolism; Cell culture; (Rabbit hepatocyte) (Wishart, R. (1044) 375)

Cholesteryl ester; Hepatic transport; (Rabbit) (Wishart, R. (1044) 382)

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Probucol; Cholesteryl ester transport (Chiesa, G. (1045) 302)

Hepatic lipase; Phospholipid; Triacylglycerol (Azéma, C. (1046) 73)

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HDL receptor
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HDL; Apoprotein catabolism; Cholesteryl ester selective uptake (Senault, C. (1046) 81)

HDL subclasses
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HDL uptake
HDL; HDL receptor; Phospholipase; (Rat hepatocyte) (Collet, X. (1043) 301)

Heart
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Heat flux
Microcalorimetry; Heat exchange rate; Cell monolayer; Cell suspension; Image analysis; (Alveolar macrophage) (Thorén, S.A. (1033) 305)

Heat shock
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Helical segment, amphipathic
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Helix-turn-helix
HnRNP; C protein; DNA binding; Helix-loop-helix; (Rat) (Sharp, Z.D. (1048) 306)

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Hemoglobin S polymerization
Thiol reagent; Hemoglobin S; Protein conformation; (Human) (Garel , M.-C. (1041) 133)

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Melittin; Gramicidin S; Alamethicin; Liposome (Portlock, S.H. (1030) 1)

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Heparin
Lipoprotein lipase; Extracellular matrix; Heparan sulfate; Thrombin (Chajek-Shaul, T. (1042) 168)

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Heparin release, in vitro
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HDL; Triacylglycerol; Apolipoprotein A-I; (Rabbit) (Clay, M.A. (1044) 50)

HDL; VLDL; Cholesteryl ester transfer protein; (Human plasma) (Newnham, H.H. (1044) 57)

HDL; Phospholipid; Triacylglycerol (Azéma, C. (1046) 73)

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Hepatic triacylglycerol lipase
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Hepatic uptake
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Δ^3-*trans*-Hexadecenoic acid
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Cubic phase; Fatty acid; Phospholipid bilayer; NMR, ^{2}H-; X-ray diffraction (Heimburg, T. (1025) 77)

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Hexokinase activity
2-Deoxy-D-glucose uptake; Glucose uptake; ATP; (Cultured human muscle cells) (Jacobs, A.E.M. (1051) 230)

Hexokinase I
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Histone acetylation
Histone; (Alfalfa) (Waterborg, J.H. (1049) 324)

Histone gene
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Histone H1
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HnRNP
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Homocystinuria
Amino acid transport; Homocysteine uptake; Endothelial cell; Thiol (Ewadh, M.J.A. (1054) 263)

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Hormone receptor
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Hormone regulation
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Horseradish peroxidase
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Manganese(III)heme; Reconstitution; Thiocyanate binding; NMR, ^{15}N-; Cyanide binding (Modi, S. (1038) 164)

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Soret and visible spectra; *p*-Thioanisole, *p*-substituted; Electron transfer, one- and two- (Pérez, U. (1038) 98)

Horseradish peroxidase-lectin
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Human placenta
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Human pseudogene
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Hyaluronate
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Hyaluronic acid
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Hydrogen bonding
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12-Hydroxyicosatetetraenoic acid
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Cholesterol synthesis; Hydroxymethylglutaryl-CoA reductase inhibitor; Pravastatin; Lovastatin; Simvastatin (Koga, T. (1045) 115)

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3β-Hydroxysteroid dehydrogenase
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3α-Hydroxysteroid dehydrogenase; Glycyrrhetinate dehydrogenase; (Rat liver microsome) (Akao, T. (1046) 271)

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Hypertriglyceridemia
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Initiation factor 2
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Slime mold; Fungal metabolism; Sodium ion transport; Membrane transport; NMR, ^{23}Na- (Greenfield, N.J. (1025) 15)

Brown adipose tissue; Alanine; Cold exposure; Starvation; Noradrenaline; (Rat) (López-Soriano, F.J. (1036) 6)

Phospholipase C; Vasopressin; Glucagon; Lithium ion; Inositol phosphate; (Rat hepatocyte) (Pittner, R.A. (1043) 218)

Tetradecylthioacetic acid; Dexamethasone; Peroxisomal β-oxidation; Growth inhibition; (Morris hepatoma cell) (Norrheim, L. (1051) 319)

Monomeric insulin mutant; NMR, ^{1}H-; COSY, two-dimensional; Sequence-specific assignment; (Human) (Roy, M. (1053) 63)

Tyrosine phosphorylation; Growth factor; Signal transduction; EGF; FGF (Kyriakis, J.M. (1054) 73)

TLCK; ATEE; Glucose transport; Tyrosine phosphorylation (Kasahara, T. (1054) 89)

Protein kinase C; Diacylglycerol; BC3H-1; Myocyte; Adipose tissue (Cooper, D.R. (1054) 95)

Cytoplasmic magnesium; Secretion; Pancreatic β-cell (Gylfe, E. (1055) 82)

Insulin concentration
Fatty acid synthesis; Genotype (Harrison, L.M. (1046) 202)

Insulin control
D-β-Hydroxybutyrate dehydrogenase; Ketone body; Starvation; Hyperlipidemic diet (Kante, A. (1033) 291)

Insulin-induced hypoglycemia
Glucocorticoid receptor; (Rat liver) (Matić, G. (1051) 192)

Insulin like growth factor II
Somatomedin; Gene expression; Promoter sequence; (Rat gene) (Matsuguchi, T. (1048) 165)

Insulin-like growth factor II
E-domain peptide; (Rat serum); (BRL-3A rat liver cell); (Rat embryo fibroblast) (Hylka, V.W. (1051) 6)

Insulin receptor
Tyrosine kinase; Ligand binding affinity; Kinase defective insulin receptor; Alpha–beta subunit interaction (Maegawa, H. (1053) 185)

Erythrocyte; Internalization; EPR; Membrane order (Santini, M.T. (1054) 333)

Insulin receptor kinase
Skeletal muscle; Kinetic analysis; (Human skeletal muscle) (Bak, J.F. (1052) 306)

Insulin release
Beta cell; Calcium ion transport; Glucose; (Rat insulinoma) (Hoenig, M. (1022) 333)

Insulin resistance
Lipogenesis; Brown adipose tissue; White adipose tissue; (Mouse liver) (Trayhurn, P. (1047) 168)

Growth hormone; (ob/ob Mouse); (Adipocyte) (Roupas, P. (1052) 341)

Insulin secretion
Intracellular calcium; Patch clamp (Dunne, B.M.J. (1055) 157)

Integrin
Disintegrin; Glycoprotein IIb-IIIa; Amino acid sequence; Recognition site; (Human platelet) (Williams, J. (1039) 81)

Interaction
D-Lactate dehydrogenase; Nonpolar; *N*-Alkylmaleimide; (*H. influenzae*) (Denicola-Seoane, A. (1040) 84)

Intercellular contact
Electrofusion; Double cell layer; Dielectrophoresis; Membrane fusion (Sukharev, S.I. (1034) 125)

Interdigitated bilayer
Dipalmitoylphosphatidylcholine; Lysophosphatidylcholine; NMR; Cross polarization/magic angle spinning; DSC (Wu, W. (1026) 225)

Interdigitated gel phase
Ethanol; Specific volume; Phase diagram; Dipalmitoylphosphatidylcholine; DSC (Ohki, K. (1028) 215)

Interdigitation
Glycosphingolipid; Phospholipid bilayer; NMR, ^{2}H-; ESR (Florio, E. (1025) 157)

Interfacial instability
Membrane–membrane interaction; Membrane surface properties; Erythrocyte adhesion; Cell adhesion (Darmani, H. (1021) 182)

Interferon
Epstein-Barr virus; Protein synthesis; Translational control; double-stranded RNA; Protein kinase (Clarke, P.A. (1050) 167)

Atherosclerosis; Lipoprotein lipase; Lymphocyte; Macrophage (Jonasson, L. (1053) 43)

Interferon-α
Soluble receptor; Neutral detergent (Eid, P. (1034) 114)

Interferon γ
α_2-Macroglobulin; Antigen expression; Antigen, Ia-; Class II major histocompatibility complex (Roche, P.A. (1051) 166)

Intergenic region
Rat insulin-like growth factor II; Random regional repetition; Genome sequence (Ikejiri, K. (1049) 350)

Interleukin-1
Plasminogen activator; (Human synovial fibroblast); (Human skin fibroblast) (Andrews, H.J. (1051) 84)

Chondrocyte dedifferentiation; Collagen synthesis; Collagenase; Tissue inhibitor of metalloproteinase; (Rabbit cell) (Lefebvre, V. (1051) 266)

Prostaglandin E_2; Inflammatory arthritis; Recombinant cytokine; Cytokine; (human chondrocyte) (Campbell, I.K. (1051) 310)

Tyrosine kinase; Protein phosphorylation; T cell (Augustine, J.A. (1052) 313)

Collagenase; Tissue inhibitor of metalloproteinase; Collagen synthesis; Tumor necrosis factor α; (Rabbit articular chondrocyte) (Lefebvre, V. (1052) 366)

Chondrocyte; Collagenase; Fetal bovine serum (Kandel, R.A. (1053) 130)

Interleukin-1β
Phorbol ester; Protein kinase C; Receptor binding regulation (Horuk, R. (1052) 173)

Interleukin-2
LDL receptor activity; Lymphocyte; Anti-CD3 antibody; Flow cytometry (Suzuki, K. (1042) 352)

Ganglioside; Micelle; Lipid bilayer (Chu, J.W.K. (1028) 205)

Interleukin-6
NMR, ^{1}H-; Deuterium exchange; Iodination; Photo-CIDNP; Chemical modification; (Human) (Nishimura, C. (1041) 243)

Intermediary electron acceptor
Photosystem II; Reaction center; Pheophytin; FTIR (Nabedryk, E. (1016) 49)

Intermediate filament
Keratin; Retinoic acid; dibutyryl cyclic AMP; Differentiation; Embryonal carcinoma (Ouellet, T. (1048) 194)

Intermembrane compartment
Phosphatidic acid; Phospholipid transport; Mitochondrial membrane; (Rat liver) (Wojtczak, L. (1044) 284)

Internal initiation
Yeast; Translation initiation; Factor-dependent extract; Cap structure (Altmann, M. (1050) 155)

Internalization
Erythrocyte; Insulin receptor; EPR; Membrane order (Santini, M.T. (1054) 333)

Internalization-sequestration
Cholecystokinin; Cholecystokinin degradation; (Pancreatic acinar cell line AR 4-2 J) (Svoboda, M. (1055) 207)

Interpulse delay
NMR; Paramagnetic reagent; Transverse relaxation time; Water transport; (Erythrocyte membrane) (Chao, L.N. (1028) 245)

Intervesicular lipid transfer
Glycolipid transfer protein; Glycosphingolipid; Protein purification (Brown, R.E. (1044) 77)

Intestinal absorption
Folate transport; pH; Membrane vesicle; CaCo-2 cell (Mason, J.B. (1024) 331)

Intestinal brush border
Disaccharidase; Alkaline phosphatase; Enzyme turnover; Pancreatic proteinase (Young, G.P. (1022) 393)

Intestinal cell
Brush-border membrane; Zinc transport; Cadmium inhibition; (Pig small intestine) (Tacnet, F. (1024) 323)

Intestinal mucosa
Acid lipase; Lysosome; Lipid absorption; Triacylglycerol metabolism (Rao, R.H. (1043) 273)

Lipase; Intestine; Lipolysis; Protein purification; Lipid metabolism (Rao, R.H. (1046) 19)

Intestinal transport
Brush-border membrane; Sodium ion cotransport; Proline; Amino acid transport; (*A. anguilla*) (Maffia, M. (1027) 8)

Intestine
Iron absorption; Kinetics; Adaptation; Ferritin; Non-heme iron; (Rat) (Schümann, K. (1033) 277)

Lipase; Lipolysis; Protein purification; Intestinal mucosa; Lipid metabolism (Rao, R.H. (1046) 19)

Growth inhibitor; Flow cytometry; (Human) (Lavagna, C. (1051) 259)

Intracellular calcium
Heavy metal; Potassium conductance (Jungwirth, A. (1054) 143)

Insulin secretion; Patch clamp (Dunne, B.M.J. (1055) 157)

Intracellular distribution
Calcium storage; Organelle; Calcium binding; Cytosolic calcium buffering (Meldolesi, J. (1055) 130)

Intracellular pH
NMR, ^{31}P-; Blood-brain barrier; Endothelial cell; (Rat) (Sogabe, T. (1051) 282)

Intracellular signal
Cytoplasmic Ca^{2+}; Cytoplasmatic pH; Vincristine sensitivity; (Human tumor cell) (Nygren, P. (1052) 392)

Intracellular translocation
Phosphatidate phosphatase; Triacylglycerol biosynthesis; Ambiquitous enzyme; (Safflower) (Ichihara, K. (1043) 227)

Intragranular vesicle
Chromaffin granule; Lysis; Hyperosmotic relaxation lysis; Photon correlation spectroscopy; Freeze-fracture (Engel, J. (1028) 236)

Intralipid
Mesophase; Intravenous infusion; Lipoprotein; Cholesterol; Lipoprotein X; (Rat) (Hajri, T. (1047) 121)

Intramembrane particle
Freeze-fracture; Cellular multidrug resistance; Membrane protein; Chemotherapy drug; Anthracycline; Daunomycin (Garci-Segura, L.M. (1029) 191)

Intravascular use
Hemoglobin; Dextran phosphate; Oxygen carrier; Low oxygen affinity; (Human) (Sacco, D. (1041) 279)

Intravenous infusion
Intralipid; Mesophase; Lipoprotein; Cholesterol; Lipoprotein X; (Rat) (Hajri, T. (1047) 121)

Intravesicular volume
Phospholipid vesicle; Liposome; Freeze-thaw; ESR; Stopped flow (Anzai, K. (1021) 21)

Intrinsic factor
Transcobalamin II; Renal brush border; Receptor; (Rat) (Ramanujam, K.S. (1030) 157)

Invertebrate
Collagen; Antibody; Collagen typing; (Sea urchin); (Echinoderm) (Shimizu, K. (1038) 39)

Invertebrate lectin
Amino acid sequence; Lectin; Primary structure; (Acorn barnacle) (Muramoto, K. (1039) 42)

Lectin; Agglutinin; Disulfide bond; Glycoprotein; (Acorn barnacle) (Muramoto, K. (1039) 52)

Invertebrate photoreceptor
G-protein; Cholera toxin; Pertussis toxin; Phototransduction; (Octopus) (Tsuda, M. (1052) 204)

Inward rectifier
Development; Ventricular cell; Patch clamp; Potassium ion channel; (Chick heart) (Josephson, I.R. (1052) 123)

Iodination
NMR, ^{1}H-; Deuterium exchange; Photo-CIDNP; Interleukin-6; Chemical modification; (Human) (Nishimura, C. (1041) 243)

***meta*-Iodobenzylguanidine**
Mono(ADP-ribosyl)transferase; Guanidino compounds; Glucocorticoid action; (Mouse leukemia cell) (Smets, L.A. (1054) 49)

(−)-5′-Iodo-Δ^8-tetrahydrocannabinol
X-ray diffraction; DSC; (−)-Δ^8-Tetrahydrocannabinol; Drug–membrane interaction (Mavromoustakos, T. (1024) 336)

Ion binding
Gramicidin A; Lipid bilayer; NMR, ^{13}C- (Smith, R. (1026) 161)

Ion channel
a-Subunit; ATPase, F_0F_1-; Site-directed mutagenesis; (*E. coli*) (Howitt, S.M. (1015) 264)

Single-channel current; Patch clamp; pH; (Rat neuron) (Franciolini, F. (1023) 223)

Fractal dimension; Fractal filtering; Single-channel data (Lew, R.R. (1023) 305)

Axosome; Vesiculation; Fusion; Membrane redistribution; Neural injury; Differential interference contrast; (Squid axon) (Fishman, H.M. (1023) 421)

Porin; Outer membrane; Patch clamp; (*E. coli*) (Buechner, M. (1024) 111)

Patch clamp; Plasma membrane; (*D. discoideum*) (Müller, U. (1026) 204)

Patch clamp; Secretion; Pancreatic duct; (Rat) (Gray, M.A. (1029) 33)

Homeoviscous adaptation; Lipid bilayer; Temperature; Excitable membrane (Macdonald, A.G. (1031) 291)

Ion flux
Bilayer lipid membrane; Cation selectivity; Polyether antibiotic; Ionophore; Nigericin (Antonenko, Y.N. (1026) 236)

Ionic channel
Black lipid membrane; Latrotoxin; Sea anemone toxin; Membrane capacitance; Lipid–protein interaction (Chanturiya, A.N. (1026) 248)

Ionic strength
Spin label; Erythrocyte membrane; Osmotic pulse; Inositol hexaphosphate; ESR (Wyse, J.W. (1022) 87)

Ion influx
Cytoplasmic cesium-133 relaxation; NMR, ^{133}Cs-; Ion transport; (Maize) (Pfeffer, P.E. (1054) 169)

Ionomycin
Blood platelet; Fluorescence anisotropy; Membrane fluidity; Platelet activation; Thrombin (Feijge, M.A.H. (1025) 173)

Ionophore
Photosystem I; Photosystem II; Light excitation imbalance; Uncoupler; Membrane stacking; (Thylakoid) (Braun, G. (1017) 79)

Phospholipid bilayer; Antibiotic; Salinomycin; Narasin; Ion transport; NMR, ^{23}Na-; NMR, ^{39}K- (Riddell, F.G. (1024) 193)

Ion flux; Bilayer lipid membrane; Cation selectivity; Polyether antibiotic; Nigericin (Antonenko, Y.N. (1026) 236)

Phospholipid vesicle; Lasalocid A; Lipid bilayer membrane; Circular dichroism (Grunwald, R. (1027) 245)

Calcium ion mobilization; Monensin; Sodium–calcium ion exchange; (Rat thyroid cell) (Ambroz, C. (1028) 229)

Ionophore A23187
Liposome; Ultrasound spectroscopy; Phase transition (Ma, L.D. (1022) 17)

Calcium ion activated potassium ion channel; Potassium ion channel; *n*-Alkanol; Glioma cell; Charybdotoxin; Calcium ionophore (Tas, P.W.L. (1023) 436)

Transmembrane pH gradient; pH gradient; Phosphatidylcholine vesicle; Large unilamellar vesicle; Cation uptake (Veiro, J.A. (1025) 109)

Polyether antibiotic; Calcimycin (A23187); Bilayer lipid membrane; Ion transport; Ion selectivity; Calcium ion–proton exchange (Pohl, P. (1027) 295)

Calcium ion; Strontium ion; Manganese ion; Ankyrin; Calmodulin; Calpain; Erythrocyte; Phospholipid; Flip-flop (Henseleit, U. (1029) 127)

Arachidonic acid; Leukotriene metabolism; Immunological challenge; Bronchial asthma; (Human lung) (Kumlin, M. (1044) 201)

Ionophore mechanism
Kinetics; Calcium ion transport; Platelet microsome; Arachidonic acid (Fischer, T.H. (1022) 215)

Ion pump
Bacteriorhodopsin; Halorhodopsin; (*H. halobium*) (Keszthelyi, L. (1018) 260)

Hyperthyroid heart; Inorganic phosphate; Glycolysis; Glycogenolysis; NMR, ^{31}P-; (Rat heart) (Seymour, A.-M.L. (1055) 107)

Ion selectivity
Polyether antibiotic; Calcimycin (A23187); Ionophore A23187; Bilayer lipid membrane; Ion transport; Calcium ion–proton exchange (Pohl, P. (1027) 295)

Ion translocation
Chloroplast; Proton-translocating ATPase; ATP-synthase; ATPase; Reconstitution (Grotjohann, I. (1017) 177)

Ion transport
Mitochondrial anion carrier; Carnitine carrier; Metabolite transport (Palmieri, F. (1018) 147)

ATPase; Anion pump; Arsenic; Antimony; Plasmid resistance (Rosen, B.P. (1018) 203)

Ehrlich tumor cell; Volume regulation; Regulatory volume increase; Sodium/potassium/chloride cotransport (Levinson, C. (1021) 1)

Vanadium; Vanadyl; Yeast; ESR; (*S. cerevisiae*) (Bode, H.-P. (1022) 163)

ATPase, Na^+/K^+-; Sodium-only mode; Activation energy; Transport stoichiometry; Substrate concentration dependence (Apell, H.-J. (1023) 81)

Phospholipid bilayer; Ionophore; Antibiotic; Salinomycin; Narasin; NMR, ^{23}Na-; NMR, ^{39}K- (Riddell, F.G. (1024) 193)

Gramicidin; Binary lipid; pH control (Mittler-Neher, S. (1026) 167)

Polyether antibiotic; Calcimycin (A23187); Ionophore A23187; Bilayer lipid membrane; Ion selectivity; Calcium ion–proton exchange (Pohl, P. (1027) 295)

Calcium pumping ATPase; Transport ATPase; ATPase; Heart; Sarcolemma; Sarcoplasmic reticulum (Dixon, D.A. (1029) 274)

Ion influx; Cytoplasmic cesium-133 relaxation; NMR, ^{133}Cs-; (Maize) (Pfeffer, P.E. (1054) 169)

Iron
Hydrogen peroxide; NAD(P)H oxidase; (Radish plasmalemma) (Vianello, A. (1023) 19)

Tyrosinase; Ferrous ion; Tyrosine hydroxylation; Oxygen radical; Melanogenesis; Regulation; (Melanoma) (Palumbo, A. (1033) 256)

X-ray crystallography; Spectroscopy; (*C. deformis*) (Alagna, L. (1036) 71)

Melanotransferrin; Iron uptake; Transferrin; (Human melanoma cell) (Richardson, D.R. (1053) 1)

Iron absorption
Intestine; Kinetics; Adaptation; Ferritin; Non-heme iron; (Rat) (Schümann, K. (1033) 277)

Iron concentration
Lipoperoxidation; Hydroperoxide formation; Ferrous/ferric ratio (Morini, P. (1046) 207)

Iron-glycated polylysine complex
Superoxide anion; Glycated polylysine; Chemiluminescence; Lipid peroxidation (Sakurai, T. (1043) 27)

Iron(III)
Ochratoxin A; ESR; Oxygen free radical (Hasinoff, B.B. (1036) 78)

Iron metabolism
Site-direct mutagenesis; Isoferritin; Immunochemistry; Protein engineering (Arosio, P. (1039) 197)

Transferrin; (Rabbit reticulocyte) (Zak, O. (1052) 24)

Bathophenanthroline disulfonate; Iron reduction; Hepatocyte; Plasma membrane; Transferrin (Thorstensen, K. (1052) 29)

Iron reductase
Iron transport; Yeast; (*S. cerevisiae*) (Lesuisse, E. (1038) 253)

Iron reduction
Bathophenanthroline disulfonate; Iron metabolism; Hepatocyte; Plasma membrane; Transferrin (Thorstensen, K. (1052) 29)

Iron reduction kinetics
Transferrin; Thiol; Anion effect; (Human) (Baldwin, D.A. (1038) 1)

Iron-sulfur center
Methyl viologen; Photosystem I; Electron transport; Photoinhibition; (Chloroplast) (Fujii, T. (1015) 41)

P700; Photosystem I; Ethylene glycol; Heat stress; (Spinach) (Hoshina, S. (1015) 61)

Iron-sulfur cluster
Hydrogenase; Nickel; ESR (Adams, M.W.W. (1020) 115)

ESR; Cytochrome bc_1; Ubisemiquinone radical; Redox state; (*Rh. sphaeroides*) (McCurley, J.P. (1020) 176)

Ferredoxin; Cytochrome *P*-450 component; ESR; (*S. griseus*) (Trower, M.K. (1037) 281)

Iron-sulfur cluster reconstitution
Photosystem I; Reaction center; Photosystem I core protein; F_A/F_B polypeptide (Parrett, K.G. (1015) 341)

Iron-sulfur protein
Glutamate synthase; Amino terminal sequence; Homology; Flavoprotein; Protein structure; (*A. brasilense*) (Vanoni, M.A. (1039) 374)

Iron transport
Iron reductase; Yeast; (*S. cerevisiae*) (Lesuisse, E. (1038) 253)

Iron uptake
Melanotransferrin; Transferrin; Iron; (Human melanoma cell) (Richardson, D.R. (1053) 1)

Ischemia
Cardiac structure–function; Acidosis; Fatty acid (Hülsmann, W.C. (1033) 214)

Hexokinase; Alcohol; Alcohol withdrawal seizure (Laursen, S.E. (1034) 118)

Kidney damage; ATP; ATP catabolite; Energy production (Zager, R.A. (1035) 29)

Isoaspartate formation
Aminoacyl-tRNA synthetase; Protein carboxyl methylation (Momand, J.A. (1040) 153)

Isobar
Phospholipase A_2; Monolayer; Isotherm; Polymeric phospholipid mixture (Grainger, D.W. (1022) 146)

Isobutylmethylxanthine
Propranolol; cAMP; Amylase; Forskolin; (Parotid gland acinar cell) (Takuma, T. (1052) 461)

Isocitrate lyase
Amino acid sequence; cDNA; Cotton; Nucleotide sequence (Turley, R.B. (1049) 223)

Brown fat; Glyoxylate cycle; Malate synthase; Peroxisome; Hibernation (Davis, W.L. (1051) 276)

Isoelectric focusing
Serum albumin; Albumin; Genetic variant; HPLC; Amino acid sequence; (Human) (Minchiotti, L. (1039) 204)

Isoelectric point
Aminoacyl-tRNA synthetase; Chromatofocusing; Phosphorylation (Berg, B.H. (1038) 391)

Isoenzyme
ATPase, Na^+/K^+-; Ouabain sensitivity; (Rat brainstem) (Blanco, G. (1027) 1)

Lactate dehydrogenase; Proteolysis; Liposome; Enzyme–lipid interaction (Dąbrowska, A. (1027) 301)

Glutathione *S*-transferase; Organ culture; (Human); (Lung) (Cossar, D. (1037) 221)

Metallothionein; Enzyme induction; Zinc; (Pigeon) (Lin, L.-y. (1037) 248)

Pyruvate kinase; Tumor; L-Cysteine; Fatty acid; (Mouse liver); (Mouse skeletal muscle) (Kędryna, T. (1039) 130)

Lipase; Enzyme purification; Enzyme characterization; (*G. candidum*) (Veeraragavan, K. (1044) 26)

Isoferritin
Site-direct mutagenesis; Iron metabolism; Immunochemistry; Protein engineering (Arosio, P. (1039) 197)

Isoform
Alfalfa; β-Amylase; Germinating seed (Kohno, A. (1035) 325)

Isoforms
ATPase, Na^+/K^+-; Detergent–protein interaction; Electrophoresis (Sweadner, K.J. (1029) 13)

Isomerization
Vitamin A; Retinal pigment epithelium; Neural retina; Bleaching; Dark incubation; HPLC (Shi, H. (1035) 1)

24β-Methylsterol end-product; Sterol biosynthesis; Sterol intermediate; Ergosterol; (*G. fujikuroi*) (Nes, W.D. (1042) 119)

Isoprenaline
Positive inotropy, G protein; Adrenergic hormone; (Guinea pig heart) (Kemp, P.R. (1051) 293)

Isoprene unit
Reaction center; Bacterial photosynthesis; Quinone; (*Rb. sphaeroides*) (McComb, J.C. (1015) 156)

Isoprotein
Apolipoprotein A-I; Cholesterol ester transfer activity; Fractional catabolic rate; HDL; Rabbit; Turnover study (Ying, H. (1047) 247)

Isoproterenol
Apical membrane; Basolateral membrane; Conductance; Microelectrode; (Frog skin) (Granitzer, M. (1029) 185)

Proto-oncogene; Rat salivary gland (Mertz, P.M. (1049) 272)

Gluconoegenesis; Glycogenolysis; Glucagon; Phenylephrine; Adrenergic agonist; (Ovine hepatocyte) (Faulkner, A. (1052) 229)

Protein synthesis; Growth; Parotid gland (López Solís, R.O. (1054) 311)

Isotachophoresis
Inositol trisphosphate; FPLC; Cardiac tissue (Waldenström, A. (1051) 185)

Isotherm
Phospholipase A_2; Monolayer; Isobar; Polymeric phospholipid mixture (Grainger, D.W. (1022) 146)

Isotope dilution
Amino acid transport; Fibroblast; Methotrexate; (Colon adenocarcinoma) (Perán, S. (1024) 233)

Isotope dilution mass spectrometry
25-Hydroxyvitamin D-3 1α-hydroxylase; Pregnancy; Ontogeny; (Guinea-pig) (Hagenfeldt, Y. (1042) 94)

Isotope tracer
Cotransport model; Computer simulation; Membrane vesicle (Andrietti, F. (1024) 373)

Isozyme
Creatine kinase; Modified subunit; Functional unit; (Rabbit muscle); (Rabbit brain) (Wang, X.-C. (1039) 313)

Creatine kinase; Conformation; Comparison; (Rabbit brain); (Rabbit muscle) (Grossman, S.H. (1040) 311)

Iturin
Planar lipid membrane; Mixed monolayer; Conducting pore; Antifungal lipopeptide; Mycosubtilin (Maget-Dana, R. (1023) 34)

Iturin biosynthesis
β-Amino fatty acid; β-Hydroxy fatty acid; (*B. subtilis*) (Besson, F. (1036) 101)

J

JCR:LA-corpulent rat
Atherosclerosis; Animal model; Hyperlipidemia; VLDL triacylglycerol; Age effect (Dolphin, P.J. (1042) 99)

J774 macrophage
Foam cell; Cholesteryl ester; Cholesterol; Lipid droplet; Phagocytosis; Lysosome; Acid cholesteryl ester hydrolase; ACAT (Mahlberg, F.H. (1045) 251)

K

Kallikrein
Enzyme purification; (Rat submandibular gland) (El-Thaher, T.S. (1034) 157)

ATPase, Na^+/K^+-; Proteinase; Trypsin (Finotti, P. (1039) 123)

Kallikrein-kinin system
Hageman factor; Bacterial proteinase; Pseudomonal infection; Pseudomonal elastase; (*P. aeruginosa*) (Yamamoto, T. (1038) 231)

***ent*-Kaurene oxidase**
Enzyme solubilization; Paclobutrazol; Cytochrome *P*-450; (*G. fujikuroi*) (Ashman, P.J. (1036) 151)

KC gene expression
Thrombin; Endothelial cell; Protein kinase C; Trypsin (Shen, X.-Y. (1049) 145)

Kearns-Sayre syndrome
Ophthalmoplegia, chronic progressive external; Muscle mitochondrion; Mitochondrial defect; DNA, mitochondrial; Oxidative phosphorylation; (Human) (Scholte, H.R. (1018) 211)

Keratin
Cytoskeleton; Lipid; Mammary cell (Asch, H.L. (1034) 303)

Intermediate filament; Retinoic acid; dibutyryl cyclic AMP; Differentiation; Embryonal carcinoma (Ouellet, T. (1048) 194)

Keratinocyte
Arachidonic acid; Phospholipid; Calcium; (Mouse) (Pacini, L. (1045) 213)

Keto bile acid
Bile acid; Keto bile acid reduction; 3α-Hydroxysteroid dehydrogenase; (Human liver) (Kudo, K. (1046) 12)

Keto bile acid reduction
Bile acid; Keto bile acid; 3α-Hydroxysteroid dehydrogenase; (Human liver) (Kudo, K. (1046) 12)

Ketoconazole
Cholesterol; Cholesterol transport; LDL; U18666A (Liscum, L. (1045) 40)

α-Ketoglutarate
Aspartate aminotransferase; Periplasmic enzyme; Bacterial nutrition (Streeter, J.G. (1035) 257)

2-Ketoglutarate dehydrogenase
Pancreatic islet; Mitochondrion; Calcium (Sener, A. (1019) 42)

Ketone body
D-β-Hydroxybutyrate dehydrogenase; Insulin control; Starvation; Hyperlipidemic diet (Kante, A. (1033) 291)

3-Ketosteroid-Δ^1-dehydrogenase
Purification; FAD-enzyme; (*N. corallina*) (Itagaki, E. (1038) 60)

Spectral property; ESR; Semiquinone; Redox property (Itagaki, E. (1040) 281)

Kidney
Proximal tubule cell; Phosphatidylinositol; (Rabbit) (Galvao, C. (1044) 34)

Adenylate cyclase; Prostacyclin; cyclic AMP; Microvessel (Chaudhari, A. (1053) 156)

Kidney cell line
Transepithelial transport; Epithelium; Pump model; MDR; Michaelis-Menten kinetics; (MDCK) (Horio, M. (1027) 116)

Kidney damage
Ischemia; ATP; ATP catabolite; Energy production (Zager, R.A. (1035) 29)

Collagen synthesis; Mesangial cell; mRNA (Ohyama, K. (1053) 173)

Kinase
Arylidenepyruvate; Inhibitor; Branched chain 2-oxo acid dehydrogenase complex; (Bovine liver) (Lau, K.S. (1038) 360)

Kinase defective insulin receptor
Insulin receptor; Tyrosine kinase; Ligand binding affinity; Alpha–beta subunit interaction (Maegawa, H. (1053) 185)

Kinetic analysis
Insulin receptor kinase; Skeletal muscle; (Human skeletal muscle) (Bak, J.F. (1052) 306)

Kinetic constant
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D-Glucose transport; Sodium ion/D-glucose cotransporter; Brush-border membrane vesicle; 3-*O*-Methylglucose; (Human fetus) (Malo, C. (1022) 8)

Ionophore mechanism; Calcium ion transport; Platelet microsome; Arachidonic acid (Fischer, T.H. (1022) 215)

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Peptide transport; Peptidase; Brush-border membrane vesicle; Photoaffinity labeling; (Rabbit small intestine); (Pig small intestine) (Kramer, W. (1030) 41)

Peptide transport; Carrier protein; Brush-border membrane vesicle; Photoaffinity labeling; (Rabbit small intestine) (Kramer, W. (1030) 50)

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Lactose transport
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LDL subfraction
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Leukotriene B_4 metabolism
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Ligninase
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Pyrethroid; Fluorescence (Michelangeli, F. (1028) 49)

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Lipid order
Lipid mobility; ATP; Erythrocyte membrane; ESR (Mosior, M. (1022) 361)

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Lipoprotein-proteoglycan complex
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Lysophospholipids
Lysophosphatidylserine; Signalling mechanism; Histamine secretion; (mouse mast cells) (Bellini, F. (1052) 216)

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Macromolecule synthesis
Macromolecule characterization; Proteoglycan; Hyaluronate; Collagen; Hexuronate; (Collateral ligament) (Hey, N.J. (1034) 73)

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Cesium ion; Myogenesis; Myoblast fusion; Cholesterol; Phosphatidylethanolamine; Phosphatidylcholine; Phosphatidylinositol (Santini, M.T. (1023) 298)

Cholesterol exchange; Red blood cell; HDL; LDL (Gold, J.C. (1027) 85)

Lipid extraction; CHAPS; Serotonin 5-HT_{1A}; Cosolubilization (Banerjee, P. (1044) 305)

Membrane–lipid interaction
Teniposide; Partitioning behavior; Lipid composition; Liposome (Wright, S.E. (1021) 105)

Membrane masking
Carnitine palmitoyltransferase; Enzyme deficiency; Freeze-thawing (Pande, S.V. (1044) 262)

Membrane–membrane interaction
Membrane surface properties; Erythrocyte adhesion; Cell adhesion; Interfacial instability (Darmani, H. (1021) 182)

Membrane order
Erythrocyte; Insulin receptor; Internalization; EPR (Santini, M.T. (1054) 333)

Membrane orientation
Vesicle preparation; Amino acid transport; Glucose transport; (Teleost intestine) (Drai, P. (1022) 251)

Membrane permeability
Mitochondrion; Oxidative phosphorylation; Proton conductance; Thyroid hormone; Control theory (Brand, M.D. (1018) 128)

Urea; Erythrocyte; NMR; (Temperature dependence) (Karan, D.M. (1024) 271)

Phase transition; Trehalose; Sucrose; Carboxyfluorescein; Dimyristoylphosphatidylcholine; Liposome (Fabrie, C.H.J.P. (1024) 380)

Mastoparan; Melittin; Biologically active peptide; Membrane fluidity; Histamine release (Katsu, T. (1027) 185)

Mitochondrion; Aspartate/glutamate carrier; ADP/ATP carrier; Reconstitution; Thiol modification (Dierks, T. (1028) 268)

Mitochondrion; Aspartate/glutamate carrier; ADP/ATP carrier; Reconstitution; Thiol modification (Dierks, T. (1028) 281)

Quin2; Phytochrome; Calcium ion influx; (Oat protoplast) (Chae, Q. (1051) 115)

Membrane phosphorylation
Noninsulin-dependent diabetes; Diabetic cardiomyopathy; Cardiomyopathy; Phosphatase 1; Phosphoprotein (Allo, S.N. (1023) 206)

Membrane potential
Bacterial bioenergetics; (*R. rubrum*); (*Rps. viridis*) (Nore, B.F. (1015) 189)

Permeabilized cell; Flux-force relationship; (Ehrlich ascites mitochondria) (Bogucka, K. (1015) 503)

pH difference generation; Respiratory chain; Protein pump; (*V. alginolyticus*) (Smirnova, I.A. (1016) 385)

Calcium oscillation; Hormone induction; Mitochondrial energy (Reber, B.F.X. (1018) 190)

Procaine; Local anesthetic; Oxidative phosphorylation; Ultrastructure; (Liver mitochondria) (Tarba, C. (1019) 19)

Uncoupler resistance; *rfa* mutant; Lipopolysaccharide; (*E. coli*) (Haworth, R.S. (1019) 67)

Cyclosporin A; Indo-1; Quin2; (Human lymphoid cell lines); (Mouse thymocytes) (Vereb, Jr., G. (1019) 159)

Maitotoxin; Calcium ion, cytosolic; Voltage operated calcium channel; Calcium ion channel; (Rat brain synaptosome) (Taglialatela, M. (1026) 126)

T (Jurkat) lymphoblast; Calcium signal; Calcium release; Calcium ion influx; Receptor-operated calcium channel (Sarkadi, B. (1027) 130)

Surface potential; Proton linked transport (Cerbón, J. (1028) 261)

Microelectrode; Tetramethylammonium; Barium; Cell volume; Nystatin; (Mouse liver) (Khalbuss, W.E. (1029) 51)

Cytoplasmic Ca^{2+}; Mitogenic stimulation; Polyene antibiotic (Henry-Toulmé, N. (1051) 285)

Membrane protein
Photosynthesis; Reaction center; (*Rps. viridis*) (Michel, H. (1018) 115)

lac permease; Energy transduction; Proton gradient; (*E. coli*) (Kaback, H.R. (1018) 160)

Erythrocyte membrane protein; Crossed affinity immunoelectrophoresis; Autoantibody; (Human) (Heegaard, N.H.H. (1023) 239)

Erythrocyte; Aggregation; Melittin; Hemolysis; Freeze-fracture (Hui, S.W. (1023) 335)

Lipid–protein interaction; Acetylcholine receptor; DSC; FTIR (Bhushan, A. (1027) 93)

Phenylhydrazine; Protein degradation; Erythrocyte; (Human) (Chakrabarti, S. (1028) 89)

Freeze-fracture; Cellular multidrug resistance; Intramembrane particle; Chemotherapy drug; Anthracycline; Daunomycin (Garci-Segura, L.M. (1029) 191)

Hepatic uptake; Transport; Carrier; Bilitranslocase; Organic anion (Tiribelli, C. (1031) 261)

Proton-translocating ATPase; ATPase; Aggregation state; Two-dimensional crystal; Acridine orange; Concanavalin A; Vanadate (Huang, L.-s. (1039) 241)

Apolipoprotein A-IV; Lipid metabolism; Receptor; Reverse cholesterol transport; Cholesterol; (Rat liver) (Ghiselli, G. (1044) 173)

Membrane–protein interaction
Lattice model; Self-consistent field; Boundary lipid; Protein channel; Nonmixing lipid; Lateral phase separation (Leermakers, F.A.M. (1024) 139)

Erythrocyte membrane; Band 3 protein; Glycolytic enzyme (Harris, S.J. (1038) 306)

Membrane protein reconstitution
Triton X-100; Bio-Bead SM_2; Phospholipid vesicle (Lévy, D. (1025) 179)

Membrane purification
Plasma membrane; Granule membrane; Calmodulin-binding protein; Two dimensional gel electrophoresis (De Block, J. (1030) 134)

Membrane receptor
Cell-tissue electrofusion; Electrofusion; Receptor transfer; (Human cell-rabbit tissue somatic cell hybrid) (Heller, R. (1024) 185)

Membrane reconstitution
Porin; Montal-Mueller cell; Voltage gating (Morgan, H. (1021) 175)

Octyl β-D-glucopyranoside; Detergent purification; Micellar size; Protein solubilization (Lorber, B. (1023) 254)

Membrane redistribution
Axosome; Vesiculation; Fusion; Ion channel; Neural injury; Differential interference contrast; (Squid axon) (Fishman, H.M. (1023) 421)

Membrane shedding
Lipid asymmetry; Flip-flop; Aminophospholipid translocase; Prothrombinase; Platelet; Erythrocyte (Comfurius, P. (1026) 153)

Membrane skeletal protein
Spin label; Erythrocyte membrane; Alzheimer's disease; Structure–activity (Palmieri, D.A. (1024) 285)

Membrane skeleton
Phospholipid asymmetry; Spectrin denaturation; (Human) (Gudi, S.R.P. (1023) 63)

Membrane stacking
Photosystem I; Photosystem II; Light excitation imbalance; Ionophore; Uncoupler; (Thylakoid) (Braun, G. (1017) 79)

Membrane structure
Membrane fluidity; Polarization; Free radical; Chlordecone; Peroxidation (Bondy, S.C. (1026) 213)

Bacterial membrane; Anionic phospholipid (Card, G.L. (1047) 77)

Membrane surface properties
Membrane–membrane interaction; Erythrocyte adhesion; Cell adhesion; Interfacial instability (Darmani, H. (1021) 182)

Membrane thickness
Bacteriorhodopsin; Papain; Planar membrane monolayer; Purple membrane; Electron microscopy; Transmission electron microscopy; Scanning tunneling microscopy (Fisher, K.A. (1023) 325)

Membrane topology
Epoxide hydrolase (Craft, J.A. (1046) 32)

Membrane traffic
Retinol; Transition element; Endoplasmic reticulum; Golgi apparatus; Cell-free system (Nowack, D.D. (1051) 250)

Membrane transport
Mitochondrion; Contact site (Brdiczka, D. (1018) 234)

Phosphatidylcholine; Exchange protein; Brush-border membrane; Protein mediated lipid uptake; (Small intestine) (Thurnhofer, H. (1024) 249)

Slime mold; Insulin; Fungal metabolism; Sodium ion transport; NMR, ^{23}Na- (Greenfield, N.J. (1025) 15)

Bile acid uptake; Bile acid conjugate; Sulfhydryl reagent, organic; (Rat hepatocyte) (Blumrich, M. (1029) 1)

Membrane vesicle
Photosynthetic bacterium; Proton translocation; Protonmotive force; (*Rb. capsulatus*) (Jones, M.R. (1019) 51)

Energy coupling; Adenosine triphosphatase; Proton pump; ATPase, E_1E_2-; Plant membrane (Briskin, D.P. (1019) 95)

Rubidium ion flux; Sodium/potassium/chloride cotransport; Hypertension; (Rat kidney) (Ferrandi, M. (1021) 13)

Cholate; Anion exchange; Nonionic diffusion; Liposome; (Rat liver) (Caflisch, C. (1021) 70)

Amino acid transport; System A; Adaptive regulation; (Rat hepatoma) (Fong, A.D. (1022) 325)

Alanine transport; Sodium ion cotransport; Divalent cation inhibition; Magnesium; Calcium; (Rat liver) (Simmons, T.W. (1023) 462)

Parathyroid hormone; Dietary phosphate; Phosphate transport; Brush border; (Pig kidney) (Quamme, G.A. (1024) 122)

Folate transport; Intestinal absorption; pH; CaCo-2 cell (Mason, J.B. (1024) 331)

Cotransport model; Computer simulation; Isotope tracer (Andrietti, F. (1024) 373)

Alanine; Serine; Sodium ion dependent transport; High protein diet; (Rat liver) (Bourdel, G. (1026) 1)

EGF receptor; Scatchard analysis; (A431 cells) (Berkers, J.A.M. (1052) 453)

Membrane viscoelasticity
Hemolysis; Erythrocyte shape; Micropipette aspiration; NMR; Ethanol; Lysophosphatidylcholine (Chi, L.-M. (1027) 163)

Membrane voltage
Urinary bladder; Sodium ion transport; Short-circuit current; Norepinephrine; (*Necturus*) (Thurman, C.L. (1022) 79)

Menadione
NADH-quinone reductase; Flavin; Toxicity; (*E. coli*) (Hayashi, M. (1035) 230)

***Mep-1* gene**
Meprin; Metallo-endopeptidase; Urinary protein; (Mouse); (Rodent); (Urine) (Flannery, A.V. (1041) 64)

Meprin
Metallo-endopeptidase; *Mep-1* gene; Urinary protein; (Mouse); (Rodent); (Urine) (Flannery, A.V. (1041) 64)

Mercurial
Spectrin; Actin; Cytoskeleton; Ankyrin; Band 3 protein (Clark, S.J. (1021) 141)

Mercurial sulfhydryl reagent
Water channel; Dimethylsulfoxide; Reflection coefficient; Brush-border membrane; (Rat kidney) (Van Hoek, A.N. (1030) 203)

Mercury electrode
Polychlorobiphenyl; Phenothiazine; Phospholipid monolayer; Dioleoylphosphatidylcholine; Phase transition; Membrane (Nelson, A. (1021) 205)

Mercury electrode surface
Protein kinase C; Phorbol ester; Cystine residue; Phospholipase A_2 (Lester, D.S. (1039) 33)

Merocyanine 540
Erythrocyte membrane; Lipid peroxidation; Phospholipid asymmetry; Phagocytosis; Adherence (Pradhan, D. (1023) 398)

Dipalmitoylphosphatidylcholine; Liposome; Glycerol; Permeability (Biondi, A.C. (1028) 43)

Mesangial cell
Prostaglandin; Charge interaction (Alavi, N. (1042) 221)

Kidney damage; Collagen synthesis; mRNA (Ohyama, K. (1053) 173)

Mesophase
Intralipid; Intravenous infusion; Lipoprotein; Cholesterol; Lipoprotein X; (Rat) (Hajri, T. (1047) 121)

Metablothionein mRNA
Fish; Cortisol; Corticosterone; 17β-Oestradiol; Zinc; Gene expression (Olsson, P.-E. (1049) 78)

Metabolic depletion
Protein phosphorylation; Phosphorylation; Serine; Threonine; Tyrosine; (Human erythrocyte) (Clari, G. (1023) 319)

Metabolic regulation
Glycolysis; Plant cell culture; Enzyme kinetics; (*C. roseus*) (Kubota, K. (1036) 138)

Metabolic stereoisomeric inversion
Ibuprofen epimerization mechanism; 2-Arylpropionic acid (Chen, C.-S. (1033) 1)

Metabolic stress
Cardiac muscle; ATP; Potassium ion channel; Action potential (Faivre, J.-F. (1029) 167)

Metabolism
Calorimetry; Respirometry; Oxycaloric equivalent; Anaerobic metabolism; Thermodynamic efficiency; (Human cell culture) (Gnaiger, E. (1016) 328)

Glyceryl ether; PAF; (*T. pyriformis*) (Lekka, M.E. (1042) 217)

Diacylglycerol; Phosphatidylethanolamine exchange; Lipid; (*E. coli*) (Proulx, P. (1044) 368)

NMR, ^{31}P-; Chronic ethanol; Energy charge; Anoxia (Ling, M. (1051) 151)

Metabolite
NMR, ^{1}H-; Lymphocyte; Proliferation; (Human) (Sze, D.Y. (1054) 198)

Metabolite transport
Mitochondrial anion carrier; Ion transport; Carnitine carrier (Palmieri, F. (1018) 147)

Metal binding site
Aluminum hydroxide; VDAC; Voltage dependence; Channel; Mitochondrion (Zhang, D.-W. (1025) 127)

Metal cation
Mammalian melanogenesis; Dopachrome tautomerase; (Mouse melanoma) (Jara, J.R. (1035) 276)

Metal ion
Epidermal growth factor; EGF receptor; Tyrosine kinase; Receptor activation; Holoreceptor (Koland, J.G. (1052) 489)

Metal-ion activation
Threonine metabolism; L-Threonine dehydrogenase; Sulfhydryl group; Disulfide bond (Craig, P.A. (1037) 30)

Metal–ligand exchange
NMR, ^{31}P-; Salt effect; ATP; Magnesium-ATP (Bishop, E.O. (1019) 276)

Metallo-endopeptidase
Meprin; *Mep-1* gene; Urinary protein; (Mouse); (Rodent); (Urine) (Flannery, A.V. (1041) 64)

Metallo-enzyme
Glycerol dehydrogenase; Dissociation constant; Fluorescence; Binary complex; (*B. Stearothermophilus*) (Spencer, P. (1040) 130)

Metalloprotein
5′-Nucleotidase; Zinc (Fini, C. (1038) 18)

Metalloproteinase
Collagenase; Tissue inhibitor; Synovial fluid; α_2-Macroglobulin; Proteinase inhibitor complex (Cawston, T. (1033) 96)

Metallothionein
Isoenzyme; Enzyme induction; Zinc; (Pigeon) (Lin, L.-y. (1037) 248)

Amino acid sequence; Protein structure; (Duck) (Lin, L.-Y. (1041) 31)

Recombinant protein; Enzyme purification; *E. coli* expression; Cd stabilization; Immunochemical characterization; (Rainbow trout) (Kille, P. (1048) 178)

Metastatis
Tumor; Cholesterol; Sterol carrier protein; Fluorescence; Membrane fluidity (Kier, A.B. (1022) 365)

Methanogenesis
ESR; Carbon monoxide dehydrogenase; Methylreductase; Corrinoid (Krzycki, J.A. (1015) 53)

Protonmotive force; Sodium motive force; (Bacteria) (Gottschalk, G. (1018) 263)

Methanogenic bacterium
Archaebacterium; Energy conservation; Acetate fermentation; Hydrogen metabolism; Methanol disproportionation (Thauer, R.K. (1018) 256)

Methanol disproportionation
Methanogenic bacterium; Archaebacterium; Energy conservation; Acetate fermentation; Hydrogen metabolism (Thauer, R.K. (1018) 256)

Methemoglobin
Modified hemoglobin; Erythrocyte; Ascorbic acid; Dehydroascorbic acid (McGown, E.L. (1036) 202)

Methionine
Methylthioribose; Cobalamin; Formate; Purine (Deacon, R. (1034) 342)

Antileukoproteinase; Proteinase inhibitor (Kramps, J.A. (1038) 178)

L-Methionine
Raji cell; L-Homocystine; Folate; Thymidylic acid; Glycine; Serine (Fell, D. (1033) 80)

Methionine adenosyltransferase
S-Adenosylmethionine synthetase; Mammalian; (*E. coli*); (Yeast) (Kotb, M. (1040) 137)

Methionine-free solution
Nucleoli; Heat shock protein (Masumi, A. (1052) 71)

Methotrexate
5-Methyltetrahydrofolate; Transport system; pH dependence; Hepatocyte; (Rat) (Horne, D.W. (1023) 47)

Amino acid transport; Isotope dilution; Fibroblast; (Colon adenocarcinoma) (Perán, S. (1024) 233)

Cholate transport; Organic anion; Efflux; Drug efflux; Multidrug resistance (Henderson, G.B. (1051) 60)

Methotrexate activity enhancement
Thiosemicarbazone; Dihydrofolate reductase; Activity modulation (Lebrun, E. (1034) 81)

Methotrexate-γ-aspartate
Liposome; Drug delivery system; Liposome stability; Drug encapsulation (Comiskey, S.J. (1024) 307)

β-Methoxyacrylate
Cytochrome bc_1; Photoaffinity labeling; Protein binding site (Mansfield, R.W. (1015) 109)

Methylamine
Transglutaminase; Polyamine; ε-(γ-Glutamyl)lysine; Tumor growth (Hand, D. (1033) 57)

Methylamine dehydrogenase
Methylotroph; Quinoprotein; Trimethylamine; (*P. denitrificans*) (Davidson, V.L. (1016) 339)

N^G-Methylarginine
Myelin basic protein; Myelin basic protein-specific protein methylase I; *S*-Adenosyl-L-methionine (Ghosh, S.K. (1039) 142)

Methylated amino acid
Trimethyllysine; Red blood cell (Mizobuchi, M. (1033) 119)

Methylation
Ferredoxin; Protein stability; Amine group (Gluck, M. (1038) 146)

***N*-Methylation**
Phosphatidylethanolamine *N*-methylation, Free radical; Superoxide anion radical; Hydrogen peroxide; Cardiac sarcolemma; Sarcoplasmic reticulum; (Rat) (Kaneko, M. (1021) 33)

Methylation Inhibitor
Phosphatidylcholine metabolism; (*Tetrahymena thermophila*) (Smith, J.D. (1047) 290)

Methylavidin, [^{14}C]-
Lipoprotein metabolism; HDL; Biotinyl-HDL_3; (Human plasma) (Daerr, W.H. (1043) 311)

2-Methyl branched chain acyl-CoA dehydrogenase
Acyl-CoA dehydrogenase; Fatty acid dehydrogenase; Valproic acid; Reye's syndrome (Ito, M. (1034) 213)

Methyl-branched fatty acid
Phenolic glycolipid; Phenolphthiocerol; Phenolphthiotriol; (*M. marinum*) (Dobson, G. (1042) 176)

5-Methyldeoxycytidine
Bacterial alkaline phosphatase; Base composition; DNA methylation; Nuclease P_1 (Palmgren, G. (1049) 293)

Methyl glucopyranoside
Sodium ion cotransport; Glucose transport; (Rat tracheal epithelium) (Saumon, G. (1023) 313)

3-*O*-Methylglucose
D-Glucose transport; Sodium ion/D-glucose cotransporter; Brush-border membrane vesicle; Kinetics; (Human fetus) (Malo, C. (1022) 8)

1-Methylhistidine
Oxygenation; Anserine; Ascorbate; Copper(II) ion (Uchida, K. (1034) 347)

Methylotroph
Methylamine dehydrogenase; Quinoprotein; Trimethylamine; (*P. denitrificans*) (Davidson, V.L. (1016) 339)

Methylreductase
Methanogenesis; ESR; Carbon monoxide dehydrogenase; Corrinoid (Krzycki, J.A. (1015) 53)

24β-Methylsterol end-product
Sterol biosynthesis; Sterol intermediate; Ergosterol; Isomerization; (*G. fujikuroi*) (Nes, W.D. (1042) 119)

5-Methyltetrahydrofolate
Methotrexate; Transport system; pH dependence; Hepatocyte; (Rat) (Horne, D.W. (1023) 47)

Methylthioribose
Methionine; Cobalamin; Formate; Purine (Deacon, R. (1034) 342)

Methyl viologen
Iron-sulfur center; Photosystem I; Electron transport; Photoinhibition; (Chloroplast) (Fujii, T. (1015) 41)

Metolazone binding
Thiazide receptor; Chloride; Sodium; (Rat kidney) (Luo, H. (1052) 119)

MgATP dependence
Glucose 6-phosphate; Calcium ion uptake; Microsome; (Rat kidney) (Fulceri, R. (1022) 129)

Micellar size
Octyl β-D-glucopyranoside; Detergent purification; Protein solubilization; Membrane reconstitution (Lorber, B. (1023) 254)

Micelle
Cytochrome oxidase; Organic solvent; Spectroscopy; Enzyme kinetics (Bona, M. (1020) 94)

Interleukin-2; Ganglioside; Lipid bilayer (Chu, J.W.K. (1028) 205)

Apocytochrome *c*; Circular dichroism; Vesicle; Lipid–protein interaction (De Jongh, H.H.J. (1029) 105)

Bacteriorhodopsin; Protein folding; Phosphatidylcholine; Fluorescence (Renthal, R. (1030) 176)

Amphotericin B; Sodium deoxycholate; Lauryl sucrose; Surfactant; Aggregation (Tancrède, P. (1030) 289)

Micelle, reversed
Retinylidene; Schiff base chromophore; Reversed micelle; Rhodopsin; Alkylammonium carboxylate surfactant (Singh, A.K. (1036) 34)

Michaelis-Menten kinetics
Transepithelial transport; Epithelium; Pump model; MDR; Kidney cell line; (MDCK) (Horio, M. (1027) 116)

Microcalorimetry
Heat exchange rate; Heat flux; Cell monolayer; Cell suspension; Image analysis; (Alveolar macrophage) (Thorén, S.A. (1033) 305)

Microcystin
Cyanobacterial toxin; Peptide toxin; Transport; Bile acid; (Mouse cell); (Human cell) (Eriksson, J.E. (1025) 60)

Microelectrode
Charge pulse; Voltage relaxation; Tip clogging; (Plant cell) (Wehner, G. (1027) 105)

Tetramethylammonium; Barium; Membrane potential; Cell volume; Nystatin; (Mouse liver) (Khalbuss, W.E. (1029) 51)

Isoproterenol; Apical membrane; Basolateral membrane; Conductance; (Frog skin) (Granitzer, M. (1029) 185)

Microenvironment
Immobilized proteinase; Prodrug (Silver, M.S. (1039) 25)

Microfilament
Lactate dehydrogenase; Troponin; Skeletal muscle; Protein interaction (Yasykova, M.Y. (1036) 85)

Microperoxidase
Spectroelectrochemistry; RVC thin-layer electrode; Active site; Reticulated vitrous carbon (Zamponi, S. (1034) 294)

Micropipette aspiration
Hemolysis; Erythrocyte shape; NMR; Ethanol; Lysophosphatidylcholine; Membrane viscoelasticity (Chi, L.-M. (1027) 163)

Microsomal membrane
ATPase, H^+-; Sedimentation coefficient; (*N. crassa*) (Addison, R. (1030) 127)

Microsome
Phosphatidylethanolamine; Molecular species; Translocation; (Brain) (Erhardt, A. (1021) 126)

Glucose 6-phosphate; Calcium ion uptake; MgATP dependence; (Rat kidney) (Fulceri, R. (1022) 129)

Lysophosphatidylcholine; Glycerolipid; Membrane fluidity; Respiratory distress; (Rabbit) (Casals, C. (1023) 290)

Cytochrome *P*-450 IIE1; Pyrazole oxidation; Alcohol dehydrogenase; (Rat liver) (Clejan, L.A. (1034) 233)

Phosphatidylinositol; CDP-diacylglycerol; Neuronal nucleus; (Rabbit cerebral cortex) (Baker, R.R. (1042) 55)

Fatty acid isolation; 9-Diazomethylanthracene derivative; Lipid translocation; Mitochondrion; (Hepatocyte) (Jakobsson, Å. (1046) 277)

Microtubule
Endogenous apical marker; Polarization; Sodium ion cotransport; ($LLC\text{-}PK_1$) (Van den Bosch, L. (1030) 223)

Tubulin carboxypeptidase; Detyrosination; Polyanion; Polycation (Lopez, R.A. (1039) 209)

Microtubule-associated protein
Tau repetitive sequence; MAP-2 fragment; Tubulin binding domain; Anti-idiotypic antibody (Rivas-Berríos, A. (1040) 382)

Microvessel
Adenylate cyclase; Prostacyclin; cyclic AMP; Kidney (Chaudhari, A. (1053) 156)

Microvillous membrane
Basal membrane; Plasma membrane; (Human placenta) (Illsley, N.P. (1029) 218)

Transport; Kinetics; Sodium ion–proton exchange; (Human placenta) (Illsley, N.P. (1029) 227)

Sucrase-isomaltase; Enzyme purification; (Goose kidney) (Galand, G. (1033) 35)

Microwave
Anesthesia; Volatile anesthetic; Model membrane; Bound water; Dielectric measurement (Enders, A. (1029) 43)

Microwave power
Photosystem II; Reaction center; ESR; Millisecond decay kinetics; Triplet state (Searle, G.F.W. (1016) 235)

Millisecond decay kinetics
Photosystem II; Reaction center; ESR; Microwave power; Triplet state (Searle, G.F.W. (1016) 235)

Mineralocorticoid receptor
Corticosteroid; RU 26752; R 5020; Hormone receptor; (Rat myocardium) (Lazar, G. (1033) 41)

Minimum inhibitory concentration
Phase separation; Polycation; Phospholipid bilayer; Antimicrobial activity; Antibacterial activity; DSC (Ikeda, T. (1026) 105)

Mitochondrial anion carrier
Ion transport; Carnitine carrier; Metabolite transport (Palmieri, F. (1018) 147)

Mitochondrial ATP synthase
ATP-synthase; Phenothiazine; Anesthetic mechanism (Dabbeni-Sala, F. (1015) 248)

ATPase; Phenothiazine; Anesthetic mechanism (Dabbeni-Sala, F. (1026) 117)

Mitochondrial compartment
Acyl-CoA; Acylcarnitine; Cytosolic compartment; Palmitate, exogenous; Hypoxia, low flow (Hütter, J.F. (1016) 244)

Mitochondrial defect
Ophthalmoplegia, chronic progressive external; Muscle mitochondrion; Kearns-Sayre syndrome; DNA, mitochondrial; Oxidative phosphorylation; (Human) (Scholte, H.R. (1018) 211)

Mitochondrial dysfunction
Cytochrome *c* oxidase; Genome mutation (Ewart, G. (1018) 223)

Mitochondrial energy
Calcium oscillation; Hormone induction; Membrane potential (Reber, B.F.X. (1018) 190)

Mitochondrial enzyme
Thymin metabolism; Physiology (Ueno, S.-i. (1035) 128)

Mitochondrial function
Aging; Superoxide radical; Glutathione; Lipid peroxidation; Cardiac hypertrophy; (Senescent rat heart) (Muscari, C. (1015) 200)

Thyroid hormone; Signal transduction; Triiodothyronine; Hormone regulation (Nelson, B.D. (1018) 275)

Mitochondrial import
Urea unfolding; Chimaeric precursor; Hydrophobic protein; Membrane binding; (Yeast mitochondrion) (Law, R.H.P. (1027) 141)

Mitochondrial inner membrane
Respiratory cytochrome; Cytochrome $P\text{-}450_{scc}$; Cardiolipin; Cholesterol; (Pig ovary) (Holland, J.W. (1022) 401)

Mitochondrial membrane
Cytochrome oxidase; Ethanol consumption; Steady state kinetics; (Rat liver) (Thayer, W.S. (1016) 333)

Creatine kinase; Contact site; Electron microscopy; (Rat) (Biermans, W. (1018) 225)

Phosphatidic acid; Phospholipid transport; Intermembrane compartment; (Rat liver) (Wojtczak, L. (1044) 284)

Phosphatidylglycerolphosphate phosphatase; Phospholipid synthesis; Enzyme regulation; (*S. cerevisiae*) (Kelly, B.L. (1046) 144)

Mitochondrial metabolism
Hormonal regulation; Matrix volume; Pyrophosphatase; Calcium ion; (Liver) (Halestrap, A.P. (1018) 278)

Mitochondrial myopathy
Respiratory chain dysfunction; DNA, mitochondrial; (Human muscle) (Morgan-Hughes, J.A. (1018) 217)

Mitochondrial outer membrane
Polypeptide contact; Two dimensional polyacrylamide gel electrophoresis; (Rat liver) (Pavlica, R.J. (1022) 115)

Pore; Cation selectivity; Mitochondrion; Porin; Lipid bilayer membrane; Reconstitution (Benz, R. (1022) 311)

Mitochondrial porin
Channel subconductance state; Voltage dependence; Gating charge (Ermishkin, L.N. (1021) 161)

Mitochondrial proliferation
Peroxisome proliferation; Hypolipidemic drug (Lundgren, B. (1035) 132)

Mitochondrial protein assembly
Citrate synthase; Protein unfolding; Protein folding; Circular dichroism (West, S.M. (1037) 332)

Mitochondrial protein synthesis
Ethanol consumption; (Rat liver) (Coleman, W.B. (1019) 142)

Mitochondrial respiration
Glycolysis; Fluorescence; Respiration and photosynthesis interaction; State I–state II transition (Gans, P. (1015) 150)

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NAD(P)H oxidase
Hydrogen peroxide; Iron; (Radish plasmalemma) (Vianello, A. (1023) 19)

NADPH oxidase
Nucleotide binding; NADPH binding site; Cytosolic factor; Superoxide generation; (Macrophage) (Sha'ag, D. (1037) 405)

Steroid; Cell-free system; Respiratory burst; (Human neutrophil) (Umeki, S. (1052) 211)

NADP-malate dehydrogenase
Enzyme light activation; Photoinhibition; Thioredoxin (Miginiac-Maslow, M. (1017) 273)

NaF
Okadaic acid; Cytidylyltransferase; Enzyme translocation; (Rat liver) (Hatch, G.M. (1042) 374)

***β*-Naphthylamide**
Peptide synthesis; Chymotrypsin; Enzyme kinetics (Gololobov, M.Y. (1041) 71)

Narasin
Phospholipid bilayer; Ionophore; Antibiotic; Salinomycin; Ion transport; NMR, ^{23}Na-; NMR, ^{39}K- (Riddell, F.G. (1024) 193)

Nascent HDL
Apolipoprotein A-I; Chinese hamster ovary cells; Apolipoprotein A-I gene transfection; Lecithin : cholesterol acyltransferase (Forte, T.M. (1047) 11)

Nascent peptide
Protein synthesis; Ribosome; Erythromycin; Puromycin; Displacement model (Hardesty, B. (1050) 197)

Neomycin
Inositol trisphosphate; Platelet-derived growth factor; Phosphate uptake; DNA synthesis; Signal transduction; (Fibroblast) (Vassbotn, F.S. (1054) 207)

Neonatal
Uncoupling protein synthesis; Brown adipose tissue; Thermogenesis; Mitochondrion (Houštěk, J. (1015) 441)

Nephrosis
Apolipoprotein A-I; HDL; Blood protein; mRNA level; (Rat plasma) (Marshall, J.F. (1042) 271)

Nephrotic syndrome
Chylomicron; Very-low-density lipoprotein; Apolipoprotein; Lipoprotein lipase; (Rat muscle); (Rat liver); (Rat adipose tissue) (Levy, E. (1043) 259)

Nephrotoxicity
Brush-border membrane; Vesicle aggregation; Gentamicin; Aminoglycoside; *N*-Acetylneuraminic acid; (Rat kidney) (Aramaki, Y. (1023) 352)

Nerve regeneration
Post-translational modification; Protein modification; Amino acid addition; Carboxypeptidase digestion (Dayal, V.K. (1038) 172)

Neural cell
Bilirubin binding; Cell surface binding; Cellular uptake; (Murine neuroblastoma) (Amit, Y. (1055) 36)

Neural injury
Axosome; Vesiculation; Fusion; Ion channel; Membrane redistribution; Differential interference contrast; (Squid axon) (Fishman, H.M. (1023) 421)

Neural retina
Vitamin A; Isomerization; Retinal pigment epithelium; Bleaching; Dark incubation; HPLC (Shi, H. (1035) 1)

Neural tumor cell
Phospholipase A_2; Plasmalogen; Bovine brain; Pyrenesulfonylethanolamine (Hirashima, Y. (1047) 35)

Neuroblastoma
Plasma membrane; Glioma; Subcellular fractionation; Phosphoinositide; Inositol cycle; Cell culture (Morris, S.J. (1022) 339)

Thyroid hormone; Plasma membrane; 3′,3,5′-Triiodo-L-thyronine (Gonçalves, E. (1055) 151)

Neuron
Protein phosphorylation; Calmodulin; Calcium ion; (Mollusc) (Gillette, R. (1036) 207)

Neuronal nucleus
Phosphatidylinositol; CDP-diacylglycerol; Microsome; (Rabbit cerebral cortex) (Baker, R.R. (1042) 55)

Neuropeptide
Vasoactive intestinal peptide; Peptide histidine isoleucinamide; Secretin; Sequence analysis; (Guinea pig) (Buscail, L. (1038) 355)

Neuropeptide receptor
Phosphatidylcholine; Liposome; Lipid–peptide interaction (McLean, L.R. (1024) 1)

Neurotoxin
Snake venom; Phospholipase; Amino acid sequence (Bieber, A.L. (1037) 413)

Crotoxin; Primary structure; B-chain; (*C. durissus terrificus*) (Aird, S.D. (1040) 217)

Neurotransmitter receptor
Receptor structure; Receptor binding; Receptor gene expression; Mutagenesis (Buckley, N.J. (1055) 43)

Neutral cholesteryl ester hydrolase
Hormonal control; Enzyme regulation; Cholesterol metabolism; Phosphorylation-dephosphorylation; (Rat mammary gland) (Martinez, M.J. (1047) 90)

Neutral detergent
Interferon-α; Soluble receptor (Eid, P. (1034) 114)

Neutral metalloproteinase
Gelatinase; Phorbol 12-myristate 13-acetate; Hepatoma cell (Masure, S. (1054) 317)

Neutron diffraction
Purple membrane; 13-*cis*-Bacteriorhodopsin; all-*trans*-Bacteriorhodopsin; Conformational change (Dencher, N.A. (1026) 51)

Neutropenia
Leukotriene B_4; Hemodialysis (Strasser, T. (1046) 326)

Neutrophil
Liposome; Membrane fusion; Erythrocyte; Calcium ion dependence (Francis, J.W. (1025) 1)

Tetrazolium reductase; NADPH; (Human) (Nisimoto, Y. (1040) 260)

Fish oil; Platelet activating factor; Lipoxygenase; Leukotriene (Careaga-Houck, M. (1047) 29)

Phosphorylation; Proteins, 47 an 49 kDa; Superoxide (Heyworth, P.G. (1052) 299)

Charge interaction; (*E. coli*) (Steadman, R. (1053) 37)

Electropermeabilization; Respiratory burst; G-protein; Fluoride; Protein kinase C (Hartfield, P.J. (1054) 176)

G-protein; GTP-binding protein; ADP-ribosylation (Khachatrian, L. (1054) 237)

Superoxide generation; Signal transduction; Protein kinase; (Guinea pig) (Robinson, J.M. (1055) 55)

N-Formyl peptide receptor; Phorbol myristate acetate; Receptor recycling; Receptor regulation; (Human) (Lobo, E. (1055) 193)

(Neutrophil microsome, porcine)
Fatty acid elongation; Palmitoyl-CoA; Arachidoyl-CoA; Very-long-chain fatty acid; Radio gas-chromatography; Porcine) (Kugi, M. (1043) 83)

Neutrophil receptor
Chemotaxis; Formylpeptide receptor; Butyloxycarbonylated peptide; Peptide antagonism; (Rabbit) (Toniolo, C. (1034) 67)

Nicardipine
Calcium antagonist; Peroxisome proliferation; (Rat liver) (Itoga, H. (1051) 21)

Nickel
Hydrogenase; Iron-sulfur cluster; ESR (Adams, M.W.W. (1020) 115)

Hydrogenase; [^{17}O]Oxygen; [^{13}C]Carbon monoxide; ESR; (*C. vinosum*) (Van der Zwaan, J.W. (1041) 101)

Nicotinamide
Thiol redox; Phosphate transport; Diamide; Glutathione redox; Brush-border membrane; (Kidney) (Suzuki, M. (1021) 85)

Nicotinic acetylcholine receptor
Fluorescence quenching; Cholesterol; Spin label; ESR; (*Torpedo marmorata*) (Arias, H.R. (1027) 287)

Nicotinic cholinergic receptor
Receptor purification; Chromatofocusing (Kapp, E.A. (1034) 29)

Niemann-Pick disease type C
Imipramine; Cholesterol metabolism; Skin fibroblast culture (Rodriguez-Lafrasse, C. (1043) 123)

Nigericin
Ion flux; Bilayer lipid membrane; Cation selectivity; Polyether antibiotic; Ionophore (Antonenko, Y.N. (1026) 236)

Nipecotoylpiperazine
Platelet; Collagen; Mural thrombogenesis; Antiplatelet agent (Owens, C.K. (1052) 351)

Nitric oxide
Photosystem II reaction center; Non-heme iron; ESR; Mossbauer; Quinone-iron complex (Petrouleas, V. (1015) 131)

Photosystem II reaction center; Non-heme iron; ESR; Bicarbonate; Quinone-iron complex (Diner, B.A. (1015) 141)

Cytochrome aa_3; Nitrite reductase; Aqueous solution; (*P. denitrificans*) (Carr, G.J. (1017) 57)

Nitrite formation
Cyanobacterium; Hydroxylamine dismutase; Ammonia formation; Hydrogen peroxide; (*P. uncinatum*) (Bagchi, S.N. (1041) 9)

Nitrite reductase
Cytochrome aa_3; Nitric oxide; Aqueous solution; (*P. denitrificans*) (Carr, G.J. (1017) 57)

Enzyme purification; (*P. laminosum*) (Arizmendi, J.M. (1040) 237)

Nitrobenzylmercaptopurine riboside
Nucleoside transport; Reconstitution; Nitrobenzylthioinosine; (Cultured human cell) (Crawford, C.R. (1024) 289)

Nitrobenzylthioinosine
Nucleoside transport; Reconstitution; Nitrobenzylmercaptopurine riboside; (Cultured human cell) (Crawford, C.R. (1024) 289)

Nitro compound
Guanylate cyclase; Radiation inactivation; Subunit interaction; (Rat lung) (Saheki, S. (1051) 306)

Nitrogen formation
Mass spectroscopy; Chloroplast; Flash-induced oxidation; Thylakoid (Renger, G. (1015) 288)

***p*-Nitrophenyl 3^5-*O*-β-*N*-acetylglucosaminyl-α-maltopentaoside**
Enzymatic transglycosylation; Amylase assay (Matsui, H. (1035) 90)

***p*-Nitrophenyl phenylphosphonate**
Deoxyribonuclease; Active site; Disulfide; (Shrimp hepatopancreas); (Bovine pancreas) (Chou, M.-Y. (1036) 95)

Nitroxide metabolism
Oxygen; Hydroxylamine; ESR; (Rat liver microsomes) (Iannone, A. (1034) 285)

Ascorbate; Glutathione depletion; ESR; (Rat liver cytosol) (Iannone, A. (1034) 290)

Nitroxide reduction
ESR; Hypoxanthine; Xanthine oxidase; Oxygen radical; Semiquinone; Liposome; Spin label reduction; Quinone; Antitumor drug; Anthracycline (Alegría, A.E. (1035) 51)

Nitroxide spin label
Spin label; Reduction; Flavin; Photoreduction; ESR (Morse II, P.D. (1034) 298)

NMR
ATPase, F_1-; Nucleotide binding; Chemical modification; (Chloroplast) (Carr, M.D. (1015) 79)

pH gradient, transmembrane; Uncoupling agent; Cation transport; (*H. halobium*); (*H. marismortui*) (Quirk, P.G. (1019) 81)

Drug–liposome interaction; X-ray diffraction (Jendrasiak, G.L. (1024) 19)

Urea; Membrane permeability; Erythrocyte; (Temperature dependence) (Karan, D.M. (1024) 271)

Dipalmitoylphosphatidylcholine; Lysophosphatidylcholine; Interdigitated bilayer; Cross polarization/magic angle spinning; DSC (Wu, W. (1026) 225)

Hemolysis; Erythrocyte shape; Micropipette aspiration; Ethanol; Lysophosphatidylcholine; Membrane viscoelasticity (Chi, L.-M. (1027) 163)

Paramagnetic reagent; Transverse relaxation time; Water transport; Interpulse delay; (Erythrocyte membrane) (Chao, L.N. (1028) 245)

Phospholipid; Phospholipase A_2; *n*-Alcohol; Vesicular membrane (Kaszuba, M. (1030) 88)

Stereospecificity; Alcohol dehydrogenase; (*S. Solfataricus*) (Trincone, A. (1041) 94)

Ligninase; Veratryl alcohol; Lignin; (*P. chrysosporium*) (Gilardi, G. (1041) 129)

Hemoglobin; Oxygen affinity (Bardakdjian-Michau, J. (1041) 250)

Phosphatidylcholine tubule; ESR; Spin labeling (Treanor, R. (1046) 1)

DNA structure; Conformational averaging (Lane, A.N. (1049) 189)

DNA conformation; Nuclear Overhauser enhancement; Energy minimization (Lane, A.N. (1049) 205)

Lead; Calcium; Parathyroid hormone; (ROS 17/2.8 cells) (Schanne, F.A.X. (1054) 250)

NMR, ^{13}C-
NMR, ^{19}F-; Calorimetry; Phase transition; Molecular probe; Fluorescence lifetime; Spin label; Phospholipid vesicle (Bammel, B.P. (1024) 61)

Gramicidin A; Lipid bilayer; Ion binding (Smith, R. (1026) 161)

Solid state NMR; NMR, ^{2}H-; (–)-Δ^9-Tetrahydrocannabinol; Model membrane; Drug–membrane interaction (Makriyannis, A. (1028) 31)

Ammoniagenesis; Chronic acidosis; GC-MS; Tricarboxylic acid cycle; (Renal tubule) (Nissim, I. (1033) 194)

Circular dichroism; Peptide folding; Proline configuration; NMR, ^{1}H- assignment; Ribonuclease fragment (Jiménez, M.A. (1038) 322)

NMR, ^{13}C CP-MAS
Dipalmitoylphosphatidylcholine; Phospholipid bilayer; Phospholipid conformation (Bruzik, K.S. (1023) 143)

NMR, ^{133}Cs-
Ion influx; Cytoplasmic cesium-133 relaxation; Ion transport; (Maize) (Pfeffer, P.E. (1054) 169)

NMR, ^{19}F-
NMR, ^{13}C-; Calorimetry; Phase transition; Molecular probe; Fluorescence lifetime; Spin label; Phospholipid vesicle (Bammel, B.P. (1024) 61)

Chymotrypsin; Diphenylcarbamoyl group; Acylchymotrypsin; Aromatic ring rotation; Exchange process; Active site; Covalent modification (Kairi, M. (1039) 157)

NMR, ^{1}H-
Fluorescence; Gel electrophoresis; Heterologous expression; Blue copper protein; (*P. aeruginosa*) (Van de Kamp, M. (1019) 283)

NMR, ^{31}P-; NMR, ^{23}Na-; NMR, ^{2}H-; Erythrocyte; Uremia (Monti, J.P. (1027) 31)

Membrane; Lipid; ATPase, Na^+/K^+-; Density gradient fraction; (Embryo) (Sparling, M.L. (1028) 117)

Manganese(III) reconstituted horseradish peroxidase; Aromatic donor molecule; Optical difference spectroscopy (Saxena, A. (1041) 83)

Myoglobin; Hemoglobin; Protein reconstitution; (Whale) (Hauksson, J.B. (1041) 186)

Deuterium exchange; Iodination; Photo-CIDNP; Interleukin-6; Chemical modification; (Human) (Nishimura, C. (1041) 243)

Phosphatidylinositol; Conformational analysis; Phospholipid (Bushby, R.J. (1044) 231)

DNA decamer; DNA conformation (Searle, M.S. (1049) 69)

Monomeric insulin mutant; COSY, two-dimensional; Sequence-specific assignment; Insulin; (Human) (Roy, M. (1053) 63)

Lipid composition; Lymphocyte; Proliferation; (Human) (Sze, D.Y. (1054) 181)

Metabolite; Lymphocyte; Proliferation; (Human) (Sze, D.Y. (1054) 198)

Oxidation; Reduction; Oxidative stress; Penicillamine; Red blood cell; (Human) (Millis, K.K. (1055) 10)

NMR, ^{2}H-
Cyclosporin A; Dipalmitoylphosphatidylcholine; Lipid–protein interaction; Cholesterol (Wiedmann, T.S. (1023) 12)

Gramicidin; Phosphatidylcholine; Bilayer (Morrow, M.R. (1023) 197)

Boundary lipid, artificial; Glycophorin; Lipid–protein interaction (Sunamoto, J. (1024) 220)

Cubic phase; Hexagonal H_{II} phase; Fatty acid; Phospholipid bilayer; X-ray diffraction (Heimburg, T. (1025) 77)

Glycosphingolipid; Interdigitation; Phospholipid bilayer; ESR (Florio, E. (1025) 157)

NMR, ^{31}P-; NMR, ^{23}Na-; NMR, ^{1}H-; Erythrocyte; Uremia (Monti, J.P. (1027) 31)

Solid state NMR; NMR, ^{13}C-; (–)-Δ^{9}-Tetrahydrocannabinol; Model membrane; Drug–membrane interaction (Makriyannis, A. (1028) 31)

Cholesterol; Peroxidation; Bilayer transfer; NMR, ^{31}P- (Barclay, L.R.C. (1047) 255)

NMR, ^{1}H- assignment
Circular dichroism; NMR, ^{13}C-; Peptide folding; Proline configuration; Ribonuclease fragment (Jiménez, M.A. (1038) 322)

NMR, ^{39}K-
Phospholipid bilayer; Ionophore; Antibiotic; Salinomycin; Narasin; Ion transport; NMR, ^{23}Na- (Riddell, F.G. (1024) 193)

NMR, ^{15}N-
Manganese(III)heme; Reconstitution; Horseradish peroxidase; Thiocyanate binding; Cyanide binding (Modi, S. (1038) 164)

NMR, ^{23}Na-
Phospholipid bilayer; Ionophore; Antibiotic; Salinomycin; Narasin; Ion transport; NMR, ^{39}K- (Riddell, F.G. (1024) 193)

Slime mold; Insulin; Fungal metabolism; Sodium ion transport; Membrane transport (Greenfield, N.J. (1025) 15)

NMR, ^{31}P-; NMR, ^{1}H-; NMR, ^{2}H-; Erythrocyte; Uremia (Monti, J.P. (1027) 31)

Sodium, intracellular; Sodium, interstitial; Quadrupole relaxation; Double quantum filter; (Rat salivary gland) (Seo, Y. (1034) 142)

NMR, ^{31}P-
Mitochondrion; Contact site; Membrane, inner, outer; Hexokinase I; Creatine kinase; Energy transfer; (Rat liver) (Nicolay, K. (1018) 229)

Energy state, cellular; Redox potential; Oxygen consumption; Hexanoate; (Isolated perfused rat heart) (Hassinen, I. (1019) 73)

Metal–ligand exchange; Salt effect; ATP; Magnesium-ATP (Bishop, E.O. (1019) 276)

α-Tocopherol; α-Tocopheryl acetate; DSC; Hexagonal H_{II} phase; Phosphatidylethanolamine (Micol, V. (1022) 194)

Fatty acid; Spin label; Hexagonal H_{II} phase; Cubic phase; ESR (Rama Krishna, Y.V.S. (1024) 89)

NMR, ^{23}Na-; NMR, ^{1}H-; NMR, ^{2}H-; Erythrocyte; Uremia (Monti, J.P. (1027) 31)

Lens; Phosphodiester; Threonine ethanolamine phosphodiester; Phospholipid; (Fish) (Burt, C.T. (1033) 189)

Cholesterol; Peroxidation; Bilayer transfer; NMR, ^{2}H- (Barclay, L.R.C. (1047) 255)

Saturation transfer; UTP–glucose-1-phosphate uridylyltransferase; Pyrophosphate; (*Z. mays*) (Roberts, J.K.M. (1051) 29)

Glucose metabolism; Glutamine metabolism; Phosphate-activated glutaminase (Sri-Pathmanathan, R.M. (1051) 131)

Creatine kinase; Energy transport; Shuttle; Diffusion; (Frog skeletal muscle) (Yoshizaki, K. (1051) 144)

Chronic ethanol; Metabolism; Energy charge; Anoxia (Ling, M. (1051) 151)

Intracellular pH; Blood-brain barrier; Endothelial cell; (Rat) (Sogabe, T. (1051) 282)

Mafosfamide metabolism; Mice leukemia (Sonawat, H.M. (1052) 36)

pH regulation; Proton/hydroxide transport; (*Platymonas subcordiformis*) (Kugel, H. (1054) 33)

Phosphate transport; Polyphosphate synthesis; Phosphate starvation; (*C. utilis*) (Bourne, R.M. (1055) 1)

pH, intracellular; Magnesium ion; Vascular smooth muscle metabolism; Phosphatic metabolite; (Porcine carotid artery) (Kopp, S.J. (1055) 27)

Hyperthyroid heart; Inorganic phosphate; Glycolysis; Glycogenolysis; Ion pump; (Rat heart) (Seymour, A.-M.L. (1055) 107)

NMR, ^{31}P-, saturation transfer
Creatine kinase; Radioisotope exchange; Substrate-enzyme complex; Rate determining step (Kupriyanov, V.V. (1020) 290)

NMR, ^{31}P-, visibility
ADP; ATP; 2,3-Diphosphoglycerate; Magnesium ion, free; (Human erythrocyte) (Petersen, A. (1035) 169)

NMR relaxation
NMR, ^{2}H-, ^{31}P; Membrane; Phosphatidylcholine, head group deuterated; Moment analysis; Phytol; Phytanic acid (Yue, J. (1047) 1)

Nonbilayer-forming lipid
Glucolipid; DSC; FTIR; Infrared spectroscopy; X-ray diffraction; (*A. laidlawii* B) (Lewis, R.N.A.H. (1026) 21)

Non-endocytic pathway
HDL; LDL; Cholesteryl ester uptake; Progesterone production; Endocytic pathway; Rat ovarian cell (Azhar, S. (1047) 148)

Non-heme iron
Photosystem II reaction center; Nitric oxide; ESR; Mossbauer; Quinone-iron complex (Petrouleas, V. (1015) 131)

Photosystem II reaction center; Nitric oxide; ESR; Bicarbonate; Quinone-iron complex (Diner, B.A. (1015) 141)

Intestine; Iron absorption; Kinetics; Adaptation; Ferritin; (Rat) (Schümann, K. (1033) 277)

Noninsulin-dependent diabetes
Diabetic cardiomyopathy; Cardiomyopathy; Membrane phosphorylation; Phosphatase 1; Phosphoprotein (Allo, S.N. (1023) 206)

Nonionic diffusion
Membrane vesicle; Cholate; Anion exchange; Liposome; (Rat liver) (Caflisch, C. (1021) 70)

Nonionic surfactant
Alkylmethylglucamide; *N*-D-Gluco-*N*-methylalkanamide (Walter, A. (1029) 67)

Nonmixing lipid
Membrane–protein interaction; Lattice model; Self-consistent field; Boundary lipid; Protein channel; Lateral phase separation (Leermakers, F.A.M. (1024) 139)

Non-ohmic transport
Anion transport; Brown adipose tissue; Mitochondrion; Uncoupling protein; Structure–function (Garlid, K.D. (1018) 151)

Nonpolar
D-Lactate dehydrogenase; Interaction; *N*-Alkylmaleimide; (*H. influenzae*) (Denicola-Seoane, A. (1040) 84)

Non-ribosomal nucleolar protein
Nucleolin; N038; Gene expression; (Chicken) (Maridor, G. (1049) 126)

Nonsense codon
Nucleotide sequence; *trpA* mutant suppression; Base change; Context; (Bacteria) (Buckingham, R.H. (1050) 259)

Nonsteroidal anti-inflammatory drug
Gastric peroxidase; Enzyme inhibition (Banerjee, R.K. (1034) 275)

Non-sterol probe
Lanosterol demethylase; (*S. cerevisiae*) (Wright, G.D. (1040) 95)

Noradrenaline
Brown adipose tissue; Alanine; Cold exposure; Starvation; Insulin; (Rat) (López-Soriano, F.J. (1036) 6)

Lipoprotein lipase; Brown adipose tissue; mRNA level; Lactation; Cold (Giralt, M. (1048) 270)

Electrophysiology; α_2-Adrenoceptors; Glucose; (Mouse pancreatic β cells) (Joffre, M. (1052) 285)

Nordihydroguaiaretic acid
Plasminogen activator; Protein kinase C; Phorbol ester; Urokinase synthesis (Rondeau, E. (1055) 165)

Norepinephrine
Urinary bladder; Sodium ion transport; Membrane voltage; Short-circuit current; (*Necturus*) (Thurman, C.L. (1022) 79)

cyclic AMP; Amiloride; Absorption; Secretion (Escobar, E. (1027) 257)

Vasopressin; Protein kinase C; 8-bromo cyclic AMP; Glucagon; Phorbol ester; (Rat hepatocyte) (Pittner, R.A. (1043) 211)

Normolipidemic serum
Cell specific association; Cholesterol esterification; Sterol synthesis; Atherosclerosis; (Human hepatoma cell line) (Swinkels, D.W. (1047) 212)

Notexin
Snake venom; Presynaptic neurotoxin; Phospholipase A_2; Amino-terminal group (Yang, C.-C. (1040) 35)

Novel ATPase
ATPase, P-; Transport ATPase; (Yeast) (Goffeau, A. (1018) 200)

Nuclear antigen
Antigen distribution; Embryogenesis; Cyclin; *String* gene; (*Drosophila*) (Gay, N.J. (1049) 249)

Nuclear factor I
Adenovirus E1A gene; Cell free transcription; Transcriptional control (Koikeda, S. (1048) 85)

Nuclear localization
Yeast; *Saccharomyces cerevisiae*; Ribosome; Protein–RNA interaction (Rutgers, C.A. (1050) 74)

Nuclear membrane
Phospholipase A_2; Fatty acid; Triiodothyronine; Nuclear T3 receptor; (Rat liver) (Van der Klis, F.R.M. (1047) 131)

DNA damage; (Human cell line) (Kvam, E. (1049) 33)

Nuclear Overhauser enhancement
NMR; DNA conformation; Energy minimization (Lane, A.N. (1049) 205)

Nuclear T3 receptor
Phospholipase A_2; Nuclear membrane; Fatty acid; Triiodothyronine; (Rat liver) (Van der Klis, F.R.M. (1047) 131)

Nuclease P_1
Bacterial alkaline phosphatase; Base composition; DNA methylation; 5-Methyldeoxycytidine (Palmgren, G. (1049) 293)

Nucleoli
Methionine-free solution; Heat shock protein (Masumi, A. (1052) 71)

Nucleolin
Ribosome biosynthesis; Glucocorticoid; Lymphosarcoma cell; Ribosomal protein; Posttranscriptional control; Translational control (Meyuhas, O. (1049) 38)

Non-ribosomal nucleolar protein; N038; Gene expression; (Chicken) (Maridor, G. (1049) 126)

Nucleophile efficiency
Acyl transfer reaction; S′-subsite specificity; Endoproteinase Glu-C; Enzymatic peptide synthesis; (*Staphylococcus* V8) (Schuster, M. (1036) 245)

Nucleoside
Ligand binding; Nucleoside analog; 3D-QSAR; Receptor mapping; Nucleoside transport protein (Viswanadhan, V.N. (1039) 356)

Nucleoside analog
Ligand binding; Nucleoside; 3D-QSAR; Receptor mapping; Nucleoside transport protein (Viswanadhan, V.N. (1039) 356)

Nucleoside diphosphate kinase
Oocyte; (*X. laevis*) (Buczynski, G. (1041) 296)

Nucleoside transport
Formycin B; Sodium ion effect; (Mouse lymphocyte) (Plagemann, P.G.W. (1022) 93)

Transport kinetics; (Human erythrocyte) (Plagemann, P.G.W. (1022) 103)

Reconstitution; Nitrobenzylmercaptopurine riboside; Nitrobenzylthioinosine; (Cultured human cell) (Crawford, C.R. (1024) 289)

Active transport; Facilitated transport; Dipyridamole; Formycin B; (Mouse); (Pig); (Human) (Plagemann, P.G.W. (1025) 32)

Adenosine; Polymorphonuclear cell; Sodium ion dependence; (Mouse) (Baer, H.P. (1026) 241)

Band 4.5; (Human erythrocyte) (Jhun, B.H. (1028) 251)

Active transport; Facilitated transport; Dipyridamole; Macrophage; (Rat); (Mouse) (Plagemann, P.G.W. (1028) 289)

Nucleoside transport protein
Ligand binding; Nucleoside; Nucleoside analog; 3D-QSAR; Receptor mapping (Viswanadhan, V.N. (1039) 356)

Nucleoside triphosphate
Adriamycin; Daunomycin; Actinomycin-D; Glucose metabolism; Cell cycle distribution; (Human breast cancer cell) (Neeman, M. (1052) 255)

5′-Nucleotidase
Myelin; Lipid peroxidation; ATPase, Na^+/K^+-; CNPase; (Shiverer mice); (Mouse brain) (Domanska-Janik, K. (1034) 200)

Zinc; Metalloprotein (Fini, C. (1038) 18)

Nucleotide binding
NMR; ATPase, F_1-; Chemical modification; (Chloroplast) (Carr, M.D. (1015) 79)

NADPH oxidase; NADPH binding site; Cytosolic factor; Superoxide generation; (Macrophage) (Sha'ag, D. (1037) 405)

Nucleotide binding domain
Pyridoxal-5′-diphospho-5′-guanosine; Affinity labeling; Elongation factor 1α (Amons, R. (1037) 401)

Nucleotide binding site
Chloroplast; ATPase, H^+-; CF_0F_1; Uni-site catalysis (Fromme, P. (1020) 187)

Nucleotide exchange domain
Proteolytic digestion; Elongation factor 1β; Elongation factor 1δ; Clostripain; Papain (Van Damme, H.T.F. (1050) 241)

Nucleotide metabolism
Aminotransferase; Enzyme purification; (Rat liver) (Ueno, S.-i. (1033) 169)

Nucleotide, protein binding
Elongation factor 2; Guanine (Bilgin, N. (1048) 217)

Nucleotide purification
6-Thioguanosine 5′-phosphate; Chemical phosphorylation; Nucleotide synthesis; HPLC; Enzymatic assay (Breter, H.-J. (1033) 124)

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p36
Calpactin; p11; Fluorescence; Calcium (Pigault, C. (1037) 106)

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lyso-PAF
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Sodium/potassium/chloride cotransport; 2-Butanol; Stereoisomer; Anesthetic; (Rat glioma cell) (Tas, P.W.L. (1026) 40)

Pentobarbital
ATPase, (Ca^{2+} + Mg^{2+})-; Sarcoplasmic reticulum; Anesthesia (Fernandez-Salguero, P. (1022) 33)

Peptidase
Peptide transport; β-Lactam antibiotic; Brush-border membrane vesicle; Photoaffinity labeling; (Rabbit small intestine); (Pig small intestine) (Kramer, W. (1030) 41)

Substrate specificity; Inhibitor sensitivity; Trypanosome (Ashall, F. (1035) 293)

Peptide antagonism
Chemotaxis; Formylpeptide receptor; Butyloxycarbonylated peptide; Neutrophil receptor; (Rabbit) (Toniolo, C. (1034) 67)

Peptide area
Substance P; Antagonist; pK; Surface activity; Air/water interface (Seelig, A. (1030) 111)

Peptide chain initiation
Ethionine; eIF-2; Ternary complex; Ribosomal subunit (Lyon, A.W. (1049) 158)

Peptide folding
Circular dichroism; NMR, ^{13}C-; Proline configuration; NMR, ^{1}H-assignment; Ribonuclease fragment (Jiménez, M.A. (1038) 322)

Peptide histidine isoleucinamide
Vasoactive intestinal peptide; Neuropeptide; Secretin; Sequence analysis; (Guinea pig) (Buscail, L. (1038) 355)

Peptide–lipid interaction
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Peptide mapping
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Peptide synthesis
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Peptide toxin
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Peptide transport
Renin inhibitor; β-Lactam antibiotic; Photoaffinity labeling; Brush-border membrane; (Rabbit small intestine) (Kramer, W. (1027) 25)

β-Lactam; Cephalosporin; Cephalexin; Caco-2; (Human intestine) (Dantzig, A.H. (1027) 211)

β-Lactam antibiotic; Chemical modification; Photoaffinity labeling; (Rabbit small intestine) (Kramer, W. (1028) 174)

β-Lactam antibiotic; Peptidase; Brush-border membrane vesicle; Photoaffinity labeling; (Rabbit small intestine); (Pig small intestine) (Kramer, W. (1030) 41)

Carrier protein; β-Lactam antibiotic; Brush-border membrane vesicle; Photoaffinity labeling; (Rabbit small intestine) (Kramer, W. (1030) 50)

Peptidoglycan
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Perfluorooctane sulfonamide
Sulfluramid; Uncoupler; Oxidative phosphorylation (Schnellmann, R.G. (1016) 344)

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Peridinin
Energy transfer; Fluorescence spectroscopy; Photosynthesis; Dinoflagellate; (*P. tamarensis*) (Mimuro, M. (1016) 280)

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Peripheral LHC II
Type 2 *cab-II* gene; Acylation; Gene product; Light harvesting complex; Photosystem II (Jansson, S. (1019) 110)

Periplasmic enzyme
Aspartate aminotransferase; α-Ketoglutarate; Bacterial nutrition (Streeter, J.G. (1035) 257)

Peritoneal macrophage
Fatty acid imbalance, $n-6/n-3$; Icosanoid synthesis; Immune response; (Rat) (Brouard, C. (1047) 19)

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Erythrocyte membrane; Water; Diol; Glycerol; Urea; Ethylene glycol; Reflection coefficient (Toon, M.R. (1022) 57)

Lipopolysaccharide; Lipid bilayer; Partition coefficient (Vaara, M. (1024) 152)

Vasopressin-arginine; Blood-brain barrier; Transport; (Guinea-pig brain) (Zlokovic, B.V. (1025) 191)

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Carrier; Carbon dioxide; Carbonic acid; Bicarbonate; Model membrane (Norris, F.A. (1030) 165)

Peroxisome; ATPase; ATPase, F_1F_0- (Wolvetang, E.J. (1035) 6)

Permeabilization
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Permeabilized cell
Membrane potential; Flux-force relationship; (Ehrlich ascites mitochondria) (Bogucka, K. (1015) 503)

Permeabilized erythrocyte
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Permease
Transmembrane solute transport; Energy coupling; Evolution; Transport, active; Group translocation; Phosphotransferase system (Saier, Jr., M.H. (1018) 248)

Peroxidase
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Enzyme kinetics; Enzyme inactivation; Hydrogen peroxide (Arnao, M.B. (1041) 43)

Peroxidation
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Peroxisomal disease
Parinaroyl phospholipid; Diphenylhexatrienyl phospholipid; Zellweger syndrome; Phospholipid transfer; Cell surface; (Human skin fibroblast) (Loidl, J. (1029) 75)

Peroxisomal enzyme
Fatty acid binding protein; Peroxisome proliferation; Bezafibrate; Clofibrate; (Cultured rat hepatocyte) (Brandes, R. (1034) 53)

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ATPase; Permeability; ATPase, F_1F_0- (Wolvetang, E.J. (1035) 6)

Tumor promoter; Long chain fatty acid; Lipid metabolism; Enzyme activity; (Rat liver) (Aarsaether, N. (1042) 86)

Dihydroxyacetone phosphate; Glycerol 3-phosphate; Phospholipid; Clofibrate; Di(2-ethylhexyl)phthalate; (Rat liver) (Horie, S. (1042) 294)

Beta oxidation; Linoleic acid; (Rat liver) (Diczfalusy, U. (1043) 182)

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Beta oxidation; Docosahexaenoic acid; Adrenic acid; Δ^4-Desaturase; X-linked adrenoleukodystrophy; Zellweger syndrome; (Fibroblast) (Grønn, M. (1044) 249)

Bile acid; Beta oxidation (Östlund Farrants, A.-K. (1046) 173)

Lipid transfer protein, non-specific; Sterol carrier protein 2; (Rat tissue) (Van Heusden, G.P.H. (1046) 315)

Brown fat; Glyoxylate cycle; Isocitrate lyase; Malate synthase; Hibernation (Davis, W.L. (1051) 276)

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L-Pipecolic acid metabolism; Pipecolate oxidase; L-α-Aminoadipate δ-semialdehyde; Zellweger syndrome; Lysine metabolism (Rao, V.V. (1038) 295)

L-α-Aminoadipate δ-semialdehyde oxidoreductase; L-α-Aminoadipic acid; Lysine metabolism; Pipecolic acid metabolism; Zellweger syndrome (Chang, Y.-F. (1038) 300)

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UDPglucuronosyltransferase; Cytochrome *P*-450 isozyme; Thyroid hormone; Carboxylic acid; (Rat liver) (Goudonnet, H. (1035) 12)

Peroxisome proliferation
Hypolipidemic drug; Fatty acid analog; (Liver) (Aarsland, A. (1033) 176)

Fatty acid binding protein; Peroxisomal enzyme; Bezafibrate; Clofibrate; (Cultured rat hepatocyte) (Brandes, R. (1034) 53)

Mitochondrial proliferation; Hypolipidemic drug (Lundgren, B. (1035) 132)

Nicardipine; Calcium antagonist; (Rat liver) (Itoga, H. (1051) 21)

Peroxisome proliferator
Alkylthioacetic acid; Sulfur oxygenation; Omega oxidation; (Liver); (Kidney); (Lung); (Muscle); (Intestine) (Bergseth, S. (1045) 90)

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G-protein; Cholera toxin; Phototransduction; Invertebrate photoreceptor; (Octopus) (Tsuda, M. (1052) 204)

Adenosine; Mast cell function; Mediator release; (RBL-2H3 cell) (Gilfillan, A.M. (1052) 467)

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Anthracycline; Daunorubicin; Transport kinetics; Transmembrane pH; Exocytosis; (Ehrlich ascites tumor) (Demant, E.J.F. (1055) 117)

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Bacteriorhodopsin; Schiff base; Enzyme kinetics; Proton donor (Miller, A. (1020) 57)

Single-channel current; Patch clamp; Ion channel; (Rat neuron) (Franciolini, F. (1023) 223)

Endocytosis; Macrophage; Liposome; Drug delivery (Daleke, D.L. (1024) 352)

Folate transport; Intestinal absorption; Membrane vesicle; CaCo-2 cell (Mason, J.B. (1024) 331)

Calcium ion; Calmodulin; Endocytic vesicle; Acidification; Calcium pump (Núñez, M.T. (1028) 21)

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5-Methyltetrahydrofolate; Methotrexate; Transport system; Hepatocyte; (Rat) (Horne, D.W. (1023) 47)

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Membrane potential; Respiratory chain; Protein pump; (*V. alginolyticus*) (Smirnova, I.A. (1016) 385)

pH effect
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Ionophore A23187; Transmembrane pH gradient; Phosphatidylcholine vesicle; Large unilamellar vesicle; Cation uptake (Veiro, J.A. (1025) 109)

Sodium ion transport; Bicarbonate; Plasma membrane; (Rat liver) (Felipe, A. (1029) 61)

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NMR; Uncoupling agent; Cation transport; (*H. halobium*); (*H. marismortui*) (Quirk, P.G. (1019) 81)

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Proximal tubule; Imidazoline derivative; Sodium ion influx; (Rabbit kidney) (Bidet, M. (1024) 173)

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NMR, ^{31}P-; Magnesium ion; Vascular smooth muscle metabolism; Phosphatic metabolite; (Porcine carotid artery) (Kopp, S.J. (1055) 27)

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Potassium ion current; pH titration; Sulfhydryl reagent; Carboxy reagent; Kinetics; (Frog skin) (Onken, H. (1024) 95)

pH regulation
NMR, ^{31}P-; Proton/hydroxide transport; (*Platymonas subcordiformis*) (Kugel, H. (1054) 33)

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Poly(amino acid); Imidazole-carboxyl; Endosome; Transferrin (Shen, W.-C. (1034) 122)

pH sensitivity
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pH-stat
Chloroplast; Photosynthesis; Homeostasis (Wagner, U. (1016) 115)

pH titration
Potassium ion current; pH microelectrode; Sulfhydryl reagent; Carboxy reagent; Kinetics; (Frog skin) (Onken, H. (1024) 95)

Phage λgt10
2,4-Dienoyl-CoA reductase; cDNA; Phage λgt11; (Peroxisomal mitochondria) (Hirose, A. (1049) 346)

Phage λgt11
2,4-Dienoyl-CoA reductase; cDNA; Phage λgt10; (Peroxisomal mitochondria) (Hirose, A. (1049) 346)

Phage RNA
Helix stability; tRNA comparison (Adhin, M.R. (1050) 110)

Phagocytosis
Erythrocyte membrane; Lipid peroxidation; Phospholipid asymmetry; Merocyanine 540; Adherence (Pradhan, D. (1023) 398)

Opsonin; Liposome; Kupffer cell; Spleen macrophage; Calcium (Moghimi, S.M. (1028) 304)

J774 macrophage; Foam cell; Cholesteryl ester; Cholesterol; Lipid droplet; Lysosome; Acid cholesteryl ester hydrolase; ACAT (Mahlberg, F.H. (1045) 251)

Phalloidin
Actin polymerization; ATP hydrolysis; Phosphate; (Rabbit skeletal muscle) (Dancker, P. (1035) 197)

Phase behavior
X-ray diffraction; Diacyltrehalose; Trehalose (Lis, L.J. (1021) 201)

Phase diagram
Interdigitated gel phase; Ethanol; Specific volume; Dipalmitoylphosphatidylcholine; DSC (Ohki, K. (1028) 215)

X-ray diffraction; Differential scanning calorimetry (Dorset, D.L. (1047) 112)

Phase fluorometry
Photosynthesis; Photosystem II; Reaction center; D1-D2-cytochrome *b*-559 complex; (*S. oleracea*) (Govindjee, (1015) 173)

Phase partition
Thylakoid membrane; Photosystem II; Antenna size; (Sonication); (Spinach chloroplasts) (Albertsson, P.-Å. (1016) 137)

Phase separation
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Polycation; Phospholipid bilayer; Antimicrobial activity; Antibacterial activity; Minimum inhibitory concentration; DSC (Ikeda, T. (1026) 105)

Phase transition
Polychlorobiphenyl; Phenothiazine; Phospholipid monolayer; Dioleoylphosphatidylcholine; Mercury electrode; Membrane (Nelson, A. (1021) 205)

Liposome; Ultrasound spectroscopy; Ionophore A23187 (Ma, L.D. (1022) 17)

Lindane; Phospholipid; Cholesterol; Fluorescent probe; Membrane fluidity (Antunes-Madeira, M.C. (1022) 110)

FTIR; Attenuated total reflection spectroscopy; Hydrogen bonding; Phospholipid membrane; Anesthesia theory; Membrane hydration; Volatile anesthetic (Tsai, Y.-S. (1022) 245)

Tetraether lipid; Differential thermoanalysis; Calorimetry; (*T. acidophilum*) (Blöcher, D. (1024) 54)

NMR, ^{19}F-; NMR, ^{13}C-; Calorimetry; Molecular probe; Fluorescence lifetime; Spin label; Phospholipid vesicle (Bammel, B.P. (1024) 61)

Trehalose; Sucrose; Membrane permeability; Carboxyfluorescein; Dimyristoylphosphatidylcholine; Liposome (Fabrie, C.H.J.P. (1024) 380)

Dipalmitoylphosphatidylcholine; Hydrated multibilayer; Orientation; FTIR; Infrared reflection spectroscopy (Okamura, E. (1025) 94)

DPPC; Electrolyte; Spin label; ESR (Bartucci, R. (1025) 117)

Lipid membrane; Cooperativity; Volatile anesthetic; Anesthetic–lipid interaction (Suezaki, Y. (1029) 143)

LDL; Protein structure; Phospholipid (Li, Q.-T. (1042) 42)

Phenol
ESR; Spin label; Membrane fluidity; Alcohol; Platelet aggregation; (Bovine platelet) (Kitagawa, S. (1027) 123)

Mitochondrion; Benzene hydroxylase; Benzene metabolism; (Rat liver) (Karaszkiewicz, J.W. (1035) 223)

Phenolic glycolipid
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Phenolphthiocerol
Phenolic glycolipid; Phenolphthiotriol; Methyl-branched fatty acid; (*M. marinum*) (Dobson, G. (1042) 176)

Phenolphthiotriol
Phenolic glycolipid; Phenolphthiocerol; Methyl-branched fatty acid; (*M. marinum*) (Dobson, G. (1042) 176)

Phenol, substituted
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Polychlorobiphenyl; Phospholipid monolayer; Dioleoylphosphatidylcholine; Mercury electrode; Phase transition; Membrane (Nelson, A. (1021) 205)

Mitochondrial ATP synthase; ATPase; Anesthetic mechanism (Dabbeni-Sala, F. (1026) 117)

Phenylalanine
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Phenylarsine oxide
Sodium-proton exchanger; Vicinal dithiol group; Amiloride; Brush border; (Human placenta) (Kulanthaivel, P. (1024) 385)

Phenylephrine
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Phenylhydrazine
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Pheophytin
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Pheophytin reduction
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PhoE signal peptide
Monomolecular layer; Anionic lipid content; Attenuated total reflectance; FTIR; Peptide–lipid interaction (Demel, R.A. (1027) 155)

Phorbol ester
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Vasopressin; Protein kinase C; 8-bromo cyclic AMP; Glucagon; Norepinephrine; (Rat hepatocyte) (Pittner, R.A. (1043) 211)

Staurosporine; Tumor promoter; Prostaglandin E_2; Arachidonic acid; Cycloheximide; (Rat peritoneal macrophage) (Watanabe, M. (1047) 141)

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Ether phospholipid; Cell culture; Diacylglycerol; (Human) (Hii, C.S.T. (1052) 327)

Protein kinase C; Antiporter, Na^+/H^+; Staurosporine; (Rat aortic smooth muscle cell) (Boscoboinik, D.O. (1052) 499)

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Plasminogen activator; Protein kinase C; Nordihydroguaiaretic acid; Urokinase synthesis (Rondeau, E. (1055) 165)

Erythroid differentiation; (Human acute myeloid leukemia cell) (Scher, W. (1055) 278)

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Phorbol myristate acetate
Alveolar macrophage; Arachidonic acid; Hydrogen peroxide; Protein kinase C; Staurosporine (Sporn, P.H.S. (1047) 192)

Phospholipase D; Phosphatidylcholine; Diacylglycerol; Phosphatidic acid; (Endothelial cell) (Martin, T.W. (1053) 162)

cyclic AMP; Bicarbonate; Adenylate cyclase; (Hamster spermatozoa) (Visconti, P.E. (1054) 231)

Phorbol 12-myristate 13-acetate
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Phorbol myristate acetate
Neutrophil; *N*-Formyl peptide receptor; Receptor recycling; Receptor regulation; (Human) (Lobo, E. (1055) 193)

Phosphatase 1
Noninsulin-dependent diabetes; Diabetic cardiomyopathy; Cardiomyopathy; Membrane phosphorylation; Phosphoprotein (Allo, S.N. (1023) 206)

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AE1 protein; Anion transport; Band 3 protein; Erythrocyte; Hypophosphite; Phosphite; Temperature dependence (Galanter, W.L. (1027) 65)

Actin polymerization; ATP hydrolysis; Phalloidin; (Rabbit skeletal muscle) (Dancker, P. (1035) 197)

S-Adenosylmethionine synthetase; Product inhibition; Kinetic regulation; Pyrophosphate; Lymphocyte; (Human) (Kotb, M. (1039) 253)

ATPase, Na^+/K^+-; Steady state kinetics (Plesner, L. (1040) 167)

Liver glutaminase; Magnesium ion; pH (Szweda, L.I. (1041) 201)

Phosphate-activated glutaminase
NMR, ^{31}P-; Glucose metabolism; Glutamine metabolism (Sri-Pathmanathan, R.M. (1051) 131)

Phosphate starvation
Phosphate transport; Polyphosphate synthesis; NMR, ^{31}P-; (*C. utilis*) (Bourne, R.M. (1055) 1)

Phosphate transport
Hyperthyroidism; (Rat-liver mitochondria) (Paradies, G. (1019) 133)

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Parathyroid hormone; Dietary phosphate; Brush border; Membrane vesicle; (Pig kidney) (Quamme, G.A. (1024) 122)

Brush-border membrane vesicle; Phosphonoformic acid; Kinetics; (Rat) (Béliveau, R. (1028) 110)

Polyphosphate synthesis; Phosphate starvation; NMR, ^{31}P-; (*C. utilis*) (Bourne, R.M. (1055) 1)

Phosphate uptake
Inositol trisphosphate; Platelet-derived growth factor; DNA synthesis; Neomycin; Signal transduction; (Fibroblast) (Vassbotn, F.S. (1054) 207)

Phosphatic metabolite
NMR, ^{31}P-; pH, intracellular; Magnesium ion; Vascular smooth muscle metabolism; (Porcine carotid artery) (Kopp, S.J. (1055) 27)

Phosphatidate hydrolysis
Alkaline phosphatase isozyme; Synthetic phosphatidate; Sodium deoxycholate; (Human) (Sumikawa, K. (1046) 27)

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Intracellular translocation; Triacylglycerol biosynthesis; Ambiquitous enzyme; (Safflower) (Ichihara, K. (1043) 227)

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Phospholipid transport; Mitochondrial membrane; Intermembrane compartment; (Rat liver) (Wojtczak, L. (1044) 284)

Phospholipase D; Phosphatidylcholine; Phorbol myristate acetate; Diacylglycerol; (Endothelial cell) (Martin, T.W. (1053) 162)

Phosphatidylcholine
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Liposome; Lipid–peptide interaction; Neuropeptide receptor (McLean, L.R. (1024) 1)

Exchange protein; Brush-border membrane; Membrane transport; Protein mediated lipid uptake; (Small intestine) (Thurnhofer, H. (1024) 249)

Large unilamellar vesicle; Plant sterol; Fluorescence anisotropy; Diphenylhexatriene; (Soybean) (Schuler, I. (1028) 82)

Bacteriorhodopsin; Protein folding; Micelle; Fluorescence (Renthal, R. (1030) 176)

Flunarizine; Calcium antagonist; Phospholipid phase behavior; Phosphatidylethanolamine; Phosphatidylserine; DSC (Thomas, P.G. (1030) 211)

Sperm-activating peptide; Energy metabolism; Fatty acid oxidation; (Sea-urchin spermatozoa) (Mita, M. (1035) 175)

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Lipolytic enzyme; Phospholipid (Dijkman, R. (1043) 67)

Diabetes; Bile acid; Cholesterol; Sex; (Rat) (Marin, J.J.G. (1043) 106)

HDL; Sphingomyelin; Fatty acid; Very-long-chain saturated fatty acid; Tissue metabolism; (Rat tissue) (Bentejac, M. (1043) 134)

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Base exchange; Calcium; Phospholipase D; Electrically-excitable membranes; Docosahexaenoic acid; Fatty acid, $n-3$ (Holbrook, P.G. (1046) 185)

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Phosphotyrosine binding antibody
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Photosystem I core protein
Photosystem I; Reaction center; F_A/F_B polypeptide; Iron-sulfur cluster reconstitution (Parrett, K.G. (1015) 341)

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Phycocyanin
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Pipecolic acid metabolism
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L-Pipecolic acid metabolism
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Macrophage activation; Trimethylamino-diphenylhexatriene; Endocytosis; Pinocytosis; Fluorescent probe (Illinger, D. (1030) 82)

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Plasminogen activator
Thrombin; Plasmin; Halomethyldihydrocoumarin; Suicide substrate (Mor, A. (1038) 119)

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Poly(ADP-ribose) metabolism
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Poly(ADP-ribose) polymerase
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Microtubule; Tubulin carboxypeptidase; Detyrosination; Polyanion (Lopez, R.A. (1039) 209)

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Polyene antibiotic
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Polymerized membrane
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Polymorphonuclear cell
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Polymorphonuclear leukocyte
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Polypeptide contact
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Polyphosphate synthesis
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α-Tocopherol; Whole blood; Copper; Hemolysis; (Human plasma) (Chahboun, S. (1042) 324)

Fish oil; Icosapentaenoic acid; Docosahexaenoic acid; Brain lipid; (Rat liver); (Rat brain) (Bourre, J.-M. (1043) 149)

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Mitochondrial outer membrane; Pore; Cation selectivity; Mitochondrion; Lipid bilayer membrane; Reconstitution (Benz, R. (1022) 311)

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Acetyl-CoA : arylamine *N*-acetyltransferase; Immobilization; Enzyme reactor; *N*-Acetylserotonin, [^{11}C] (Mannens, G. (1038) 68)

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Cation channel, nonselective; Sodium; A6 kidney cell; Patch clamp (Hamilton, K.L. (1031) 16)

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Epithelium; Pneumocyte; 4-Aminopyridine; Quinine; Patch clamp; (Rat lung) (Peers, C. (1052) 113)

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Potassium ion current
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Potassium ion uptake
Potassium ion/proton cotransport; ATPase, H^+-; Acidophile; Plasma membrane; (*D. acidophila*); (*M. reukaufii*) (Gläser, H.-U. (1019) 293)

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Potassium transport kinetics
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Potato carboxypeptidase inhibitor
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Potential-sensitive dye
Proton pump; Vesicle reconstitution; (*E. hirae*) (Apell, H.-J. (1017) 221)

$pp60^{v\text{-}src}$
Tyrosine kinase; Histone kinase activity; Phosphotyrosine; Phosphotyrosine binding antibody (Whitehouse-Hills, S. (1037) 380)

P700 photooxidation
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Pravastatin
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Cholesterol synthesis; Hydroxymethylglutaryl-CoA reductase; Hydroxymethylglutaryl-CoA reductase inhibitor; Lovastatin; Simvastatin (Koga, T. (1045) 115)

Preferential binding
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Pregnancy
25-Hydroxyvitamin D-3 1α-hydroxylase; Ontogeny; Isotope dilution mass spectrometry; (Guinea-pig) (Hagenfeldt, Y. (1042) 94)

Preimplantation conceptus
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Amino acid transport; System B; System $B^{0,+}$; Development; (Mouse egg); (Mouse embryo) (Van Winkle, L.J. (1025) 225)

Amino acid transport; Cationic amino acid; Development; (Mouse egg); (Mouse embryo) (Van Winkle, L.J. (1028) 165)

Premalignant
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Preparative cellulose acetate electrophoresis
Balanced protein polymorphism; Adenylate kinase; Adenosine (5′) pentaphospho (5′) adenosine; Hemophilia A (Luz, C.M. (1038) 80)

Pressure effect
Artificial membrane; Ligand binding; Clofibrate; Fourier transform infrared spectroscopy (Philp, R.B. (1021) 91)

Pre-steady-state kinetics
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NADH–ubiquinone oxidoreductase; Respiratory chain; Electron transfer; (Bovine heart mitochondria) (Kotlyar, A.B. (1019) 151)

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Pretranslational regulation
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Primary charge separation
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Primary culture
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Fluorescence; Fluorescence lifetime; Photoreceptor; Proton dissociation; Stentorin; (*Stentor coeruleus*) (Song, P.-S. (1040) 58)

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Ferredoxin; Amino acid sequence; (*S. griseus*) (Trower, M.K. (1037) 290)

Amino acid sequence; Lectin; Invertebrate lectin; (Acorn barnacle) (Muramoto, K. (1039) 42)

Crotoxin; B-chain; Neurotoxin; (*C. durissus terrificus*) (Aird, S.D. (1040) 217)

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Probucol
Cholesteryl ester transport; HDL (Chiesa, G. (1045) 302)

Procaine
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Procarcinogen
Colon cancer; Premalignant; Malondialdehyde; Pigment, lipofuscin-like (Dudeja, P.K. (1046) 267)

Processing
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Viral polyprotein; HIV; Rhinovirus; Poliovirus; Picornaviral 3C and 2A cysteine proteinase; Retroviral aspartic proteinase; Substrate; Inhibitor; Structure of inhibitor proteinase complex (Kay, J. (1048) 1)

Procoagulant activity
Collagen; Platelet activation; Coagulation (Kawamoto, Y. (1035) 361)

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Immobilized proteinase; Microenvironment (Silver, M.S. (1039) 25)

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S-Adenosylmethionine synthetase; Kinetic regulation; Phosphate; Pyrophosphate; Lymphocyte; (Human) (Kotb, M. (1039) 253)

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Clara cell 10 kDa protein; Immunohistochemistry; Phospholipase A_2 inhibitor; Proteinase inhibitor; Antiinflammatory activity (Singh, G. (1039) 348)

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Proliferation
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Proline
Brush-border membrane; Sodium ion cotransport; Amino acid transport; Intestinal transport; (*A. anguilla*) (Maffia, M. (1027) 8)

Proline configuration
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Prostaglandin synthesis
Prostaglandin metabolism; HPLC; (Rabbit stomach); (Antral mucosal slice) (Fujimoto, Y. (1044) 65)

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Prostatic acid phosphatase
Tissue-specific expression; Prostate specific transcript; Lysosomal acid phosphatase; (Human prostate); (Prostatic cancer cell) (Solin, T. (1048) 72)

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Sperm; Adenylate cyclase; Bicarbonate; Proteinase (Okamura, N. (1035) 83)

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Proton binding
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Proton channel
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Proton conductance
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Proton donor
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Proton ejection
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Proton/hydroxide transport
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Proton leak
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Oxidative phosphorylation; Energy coupling; Redox slip; (Rat liver mitochondria) (Groen, B.H. (1019) 121)

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Protonmotive force
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Proton leak; Molecular slip; Resting state respiration; Flux-force relationship; (Mitochondria) (Wojtczak, L. (1018) 177)

Sodium motive force; Methanogenesis; (Bacteria) (Gottschalk, G. (1018) 263)

Photosynthetic bacterium; Proton translocation; Membrane vesicle; (*Rb. capsulatus*) (Jones, M.R. (1019) 51)

Protonophore
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Proton pump
Bacteriorhodopsin; Purple membrane; Chloride; Difference spectroscopy (Renthal, R. (1016) 378)

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Energy coupling; Adenosine triphosphatase; ATPase, E_1E_2-; Plant membrane; Membrane vesicle (Briskin, D.P. (1019) 95)

Proton pump stoichiometry
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Proton storage
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Proton transfer
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Photosynthetic bacterium; Protonmotive force; Membrane vesicle; (*Rb. capsulatus*) (Jones, M.R. (1019) 51)

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Proton translocation stoichiometry
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Proton transport
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Protonophore; Valinomycin; Temperature jump; pH jump (Ahmed, I. (1024) 298)

Proton uptake
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Pyridoxal 5′-phosphate
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Pyridoxyllysine peptide
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Quinol derivative
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Chlorophyll *a* fluorescence; Inactive Photosystem II center; Photosystem II; Heat stress; (Spinach); (Soybean) (Cao, J. (1015) 180)

Photoinhibition; Photosystem II; ESR; Electron transport; Charge separation (Styring, S. (1015) 269)

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Photosystem II reaction center; Nitric oxide; Non-heme iron; ESR; Bicarbonate (Diner, B.A. (1015) 141)

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Radical pair state
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Radioisotope exchange
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Ramiprilat
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Elongation factor Tu; Guanine nucleotide binding (Jurnak, F. (1050) 209)

Rat αB-crystallin
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Rate determining step
Creatine kinase; NMR, ^{31}P-, saturation transfer; Radioisotope exchange; Substrate-enzyme complex (Kupriyanov, V.V. (1020) 290)

Rat insulin-like growth factor II
Random regional repetition; Genome sequence; Intergenic region (Ikejiri, K. (1049) 350)

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Photosystem II; Fluorescence spectroscopy; Time resolved spectroscopy; Electron transfer; Free energy (Booth, P.J. (1016) 141)

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Bacterial photosynthesis; Proton uptake; Redox midpoint potential; (*Rb. sphaeroides*) (McPherson, P.H. (1019) 91)

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Photosynthesis; Quinone; Proton binding; (*Rb. sphaeroides*) (Takahashi, E. (1020) 107)

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Receptor gene expression
Neurotransmitter receptor; Receptor structure; Receptor binding; Mutagenesis (Buckley, N.J. (1055) 43)

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Receptor mediated endocytosis
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Vasopressin receptor; Affinity chromatography (Georgoussi, Z. (1055) 69)

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Receptor regulation
Neutrophil; *N*-Formyl peptide receptor; Phorbol myristate acetate; Receptor recycling; (Human) (Lobo, E. (1055) 193)

Receptor site structure
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Receptor structure
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Recombinant cytokine
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Recombinant HDL
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Uncoupled sodium efflux; Sodium ion efflux; Sodium ion–proton exchange; Transport stoichiometry; ATPase, Na^+/K^+-; Electrogenicity; (Shark) (Cornelius, F. (1026) 147)

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Mitochondrion; Aspartate/glutamate carrier; ADP/ATP carrier; Thiol modification; Membrane permeability (Dierks, T. (1028) 281)

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Oxidative phosphorylation; Energy coupling; Proton leak; (Rat liver mitochondria) (Groen, B.H. (1019) 121)

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Cytochrome *c*; Polyanion binding; Conformational change (Hildebrandt, P. (1040) 175)

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Retinylidene; Schiff base chromophore; Reversed micelle; Micelle, reversed; Alkylammonium carboxylate surfactant (Singh, A.K. (1036) 34)

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Ribosomal A site
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Ribosomal E site
Ribosomal A site; Ribosomal P site; Thiostrepton; Viomycin; Ribosomal allosteric three-site model; tRNA ribosome binding; Ribosomal peptidyltransferase (Kutay, U.R. (1050) 193)

Ribosomal peptidyltransferase
Ribosomal A site; Ribosomal P site; Ribosomal E site; Thiostrepton; Viomycin; Ribosomal allosteric three-site model; tRNA ribosome binding (Kutay, U.R. (1050) 193)

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Elongation factor 2; Trypsinolyse; Translocation (Marzouki, A. (1048) 238)

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Ribosome structure
Ribosome–mRNA interaction; Oligoribonucleotide; (*E. coli*) (Vladimirov, S.N. (1048) 245)

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RNA helicase
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RNA, 16S, mutagenesis
16S RNA methylation; Ribosome function; *ksgA* methyltransferase (Cunningham, P.R. (1050) 18)

RNA structure
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tRNA suppressor activity
$tRNA^{Leu}$ structure; (Lupin seed) (Barciszewska, M. (1048) 78)

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Seminal plasmin
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Presynaptic neurotoxin; Phospholipase A_2; Notexin; Amino-terminal group (Yang, C.-C. (1040) 35)

Sodium
Cation channel, nonselective; Potassium; A6 kidney cell; Patch clamp (Hamilton, K.L. (1031) 16)

Thiazide receptor; Metolazone binding; Chloride; (Rat kidney) (Luo, H. (1052) 119)

Sodium, extracellular
Proline transport; Sodium, intracellular; Disaccharide; Protein synthesis; Cell volume (Petronini, P.G. (1053) 144)

Sodium, intracellular
Proline transport; Sodium, Eetracellular; Disaccharide; Protein synthesis; Cell volume (Petronini, P.G. (1053) 144)

Sodium absent
ATPase, Na^+/K^+-; Phosphoenzyme; Potassium present; Dimethylsulfoxide (Barrabin, H. (1023) 266)

Sodium–calcium ion exchange
Monovalent cation; (Squid axon) (Condrescu, M. (1024) 198)

Calcium ion mobilization; Monensin; Ionophore; (Rat thyroid cell) (Ambroz, C. (1028) 229)

Manganese ion; Calcium ion; Homeostasis, calcium; (Squid axon) (Allen, T.J.A. (1030) 101)

Sodium–calcium ion exchanger
ATPase, Ca^{2+}-; Compensatory renal growth; Basal-lateral plasma membrane; (Kidney) (Hadžić, A. (1022) 265)

Sodium carbonate
Peroxisome; Membrane; Triton X-114; Enzyme distribution (Hardeman, D. (1027) 149)

Sodium deoxycholate
Amphotericin B; Lauryl sucrose; Surfactant; Micelle; Aggregation (Tancrède, P. (1030) 289)

Alkaline phosphatase isozyme; Phosphatidate hydrolysis; Synthetic phosphatidate; (Human) (Sumikawa, K. (1046) 27)

Sodium, interstitial
Sodium, intracellular; Quadrupole relaxation; Double quantum filter; NMR, ^{23}Na-; (Rat salivary gland) (Seo, Y. (1034) 142)

Sodium, intracellular
Sodium, interstitial; Quadrupole relaxation; Double quantum filter; NMR, ^{23}Na-; (Rat salivary gland) (Seo, Y. (1034) 142)

Sodium ion
Beta cell membrane; Furosemide; Chloride cotransport; Cation transport; Rubidium ion efflux; (Mouse pancreatic β-cell) (Sandström, P.-E. (1023) 191)

ATPase, Na^+/K^+-; Phosphointermediate; Potassium ion; Ouabain (Huang, W.-H. (1030) 65)

Sodium ion channel
Glycoprotein; Phosphorylation; Antibody; (*Drosophila*); (Central nervous system) (Gordon, D. (1026) 80)

Sodium ion cotransport
Membrane fluidity; Transport system; Benzyl alcohol; cyclic AMP; (Renal proximal cell) (Friedlander, G. (1022) 1)

Glucose transport; Methyl glucopyranoside; (Rat tracheal epithelium) (Saumon, G. (1023) 313)

Alanine transport; Membrane vesicle; Divalent cation inhibition; Magnesium; Calcium; (Rat liver) (Simmons, T.W. (1023) 462)

Brush-border membrane; Proline; Amino acid transport; Intestinal transport; (*A. anguilla*) (Maffia, M. (1027) 8)

Endogenous apical marker; Microtubule; Polarization; (LLC-PK_1) (Van den Bosch, L. (1030) 223)

Sodium ion dependence
D-Glucose transport; Insulin; Glucose effect; Streptozotocin-induced diabetes; Brush-border membrane vesicle; (Kidney) (Yasuda, H. (1021) 114)

Adenosine; Nucleoside transport; Polymorphonuclear cell; (Mouse) (Baer, H.P. (1026) 241)

Amino acid transport; L-Alanine; Kinetic constant; (Rabbit gastric gland) (Bravo, I. (1029) 98)

Sodium ion dependent transport
Alanine; Serine; Membrane vesicle; High protein diet; (Rat liver) (Bourdel, G. (1026) 1)

Sodium ion / D-glucose cotransporter
D-Glucose transport; Brush-border membrane vesicle; 3-*O*-Methylglucose; Kinetics; (Human fetus) (Malo, C. (1022) 8)

Sodium ion effect
Formycin B; Nucleoside transport; (Mouse lymphocyte) (Plagemann, P.G.W. (1022) 93)

Sodium ion efflux
ATPase, Na^+/K^+-; Aldosterone; (Rabbit) (Blot-Chabaud, M. (1022) 126)

Uncoupled sodium efflux; Sodium ion–proton exchange; Transport stoichiometry; Reconstituted Na^+/K^+-ATPase; ATPase, Na^+/K^+-; Electrogenicity; (Shark) (Cornelius, F. (1026) 147)

Sodium ion / glucose cotransporter
Expression mammalian cell; Lipofection; COS-7 renal cell; Glucose transporter; Gene expression; Expression vector; DNA transfection; (Simian kidney cell, COS-7) (Birnir, B. (1048) 100)

Sodium ion influx
Proximal tubule; Imidazoline derivative; pH, intracellular; (Rabbit kidney) (Bidet, M. (1024) 173)

Sodium ion / proton antiport
Basolateral membrane vesicle; (Rat enterocyte) (Orsenigo, M.N. (1026) 64)

Sodium ion–proton exchange
Uncoupled sodium efflux; Sodium ion efflux; Transport stoichiometry; Reconstituted Na^+/K^+-ATPase; ATPase, Na^+/K^+-; Electrogenicity; (Shark) (Cornelius, F. (1026) 147)

Sodium ion/proton transport; Apical membrane vesicle; (Lamb alveolar type II cell) (Shaw, A.M. (1028) 9)

pH; Enterocyte; (Chicken) (Calonge, M.L. (1029) 201)

Microvillous membrane; Transport; Kinetics; (Human placenta) (Illsley, N.P. (1029) 227)

Cytoplasmic calcium ion; Concanavalin A; (Rat thymocyte) (Gukovskaya, A.S. (1051) 242)

Sodium ion / proton transport
Apical membrane vesicle; Sodium ion–proton exchange; (Lamb alveolar type II cell) (Shaw, A.M. (1028) 9)

Sodium ion translocation
ATPase, F_1F_0-; Proton translocation; (*B. alcalophilus*); (*P. modestum*) (Hoffmann, A. (1018) 206)

Sodium ion transport
Urinary bladder; Membrane voltage; Short-circuit current; Norepinephrine; (*Necturus*) (Thurman, C.L. (1022) 79)

Slime mold; Insulin; Fungal metabolism; Membrane transport; NMR, ^{23}Na- (Greenfield, N.J. (1025) 15)

Bicarbonate; Plasma membrane; pH gradient; (Rat liver) (Felipe, A. (1029) 61)

Sodium / magnesium antiport
Magnesium ion efflux; (Rat erythrocyte) (Günther, T. (1023) 455)

Sodium motive force
Protonmotive force; Methanogenesis; (Bacteria) (Gottschalk, G. (1018) 263)

Sodium oleate
Cholesteryl ester transfer protein; Triacylglycerol-rich lipoprotein (Barter, P.J. (1047) 294)

Sodium-only mode
ATPase, Na^+/K^+-; Ion transport; Activation energy; Transport stoichiometry; Substrate concentration dependence (Apell, H.-J. (1023) 81)

Sodium / potassium / chloride cotransport
Ehrlich tumor cell; Volume regulation; Regulatory volume increase; Ion transport (Levinson, C. (1021) 1)

Membrane vesicle; Rubidium ion flux; Hypertension; (Rat kidney) (Ferrandi, M. (1021) 13)

2-Butanol; 2,4-Pentanediol; Stereoisomer; Anesthetic; (Rat glioma cell) (Tas, P.W.L. (1026) 40)

Sodium / potassium / 2 chloride cotransport
Rubidium (potassium) ion uptake; Bumetanide; Ouabain; (*Xenopus* oocyte) (Shetlar, R.E. (1023) 184)

Sodium / potassium pump
Blood group antigen; Immunoprecipitation; Erythrocyte membrane; (Sheep) (Pittman, S.J. (1022) 408)

Sodium / proton antiport
pH, cytoplasmic; Monocyte; Macrophage; Amiloride (Swallow, C.J. (1022) 203)

Sodium-proton exchanger
Vicinal dithiol group; Phenylarsine oxide; Amiloride; Brush border; (Human placenta) (Kulanthaivel, P. (1024) 385)

Platelet activation; Protein kinase C; Collagen; Secretion (Joseph, S. (1054) 26)

SOD-like
Hemocyanin; Apohemocyanin; Pulse radiolysis; Superoxide anion (Quéinnec, E. (1041) 153)

Solid film
Divinylprotochlorophyllide; Aggregation; Absorption spectroscopy; Chlorophyll (Böddi, B. (1015) 116)

Solid-phase synthesis
Synthetic peptide; Fluorescence (Chersi, A. (1034) 333)

Solid state NMR
NMR, ^{2}H-; NMR, ^{13}C-; (–)-Δ^9-Tetrahydrocannabinol; Model membrane; Drug–membrane interaction (Makriyannis, A. (1028) 31)

Solubility
Apolipoprotein B; Apolipoprotein; Immunoblotting; Electron microscopy; Aqueous solution; LDL; (Rat) (Kamanna, V.S. (1043) 119)

Solubilization
Purple membrane; Bacteriorhodopsin; Light adaptation; Surfactant (González-Mañas, J.M. (1019) 167)

UDPglucose–ceramide glucosyltransferase; Detergent; Osmolyte (Durieux, I. (1024) 263)

Soluble enzyme
ATPase, H^+/K^+-; $C_{12}E_8$; Glutaraldehyde; Crosslink; Subunit (Rabon, E.C. (1039) 277)

Soluble receptor
Interferon-α; Neutral detergent (Eid, P. (1034) 114)

Solvent effect
Butyrylcholinesterase; Stopped-flow fluorimeter; Electrophoresis; Conformational plasticity (Masson, P. (1041) 223)

Solvent isotope effect
Acetylcholinesterase; Proton transfer; Transition state (Acheson, S.A. (1040) 199)

Somatic cell hybridization
Thermofusion of cells; Thermo-osmotic effect; Plant protoplast (Antonov, P.A. (1051) 279)

Somatomedin
Insulin like growth factor II; Gene expression; Promoter sequence; (Rat gene) (Matsuguchi, T. (1048) 165)

Sorbinil
Myo-inositol uptake; Hyperglycemia; Competitive inhibition; Diabetic angiopathies; (Porcine aortic endothelial cell) (Olgemöller, B. (1052) 47)

Soret and visible spectra
Horseradish peroxidase compound I and II; *p*-Thioanisole, *p*-substituted; Electron transfer, one- and two- (Pérez, U. (1038) 98)

Species difference
HDL; Lipoprotein receptor; Hepatic membrane; (Guinea pig) (Fernandez, M.L. (1042) 142)

Species specificity
Vitronectin; Cell adhesive glycoprotein; Molecular diversity; Horseradish peroxidase-lectin; Glycosylation pattern (Kitagaki-Ogawa, H. (1033) 49)

Specificity
Macromolecular interaction; Dynamism; Modulation; Glycolytic enzyme (Neuzil, J. (1037) 307)

Androgen receptor; LNCaP tumor cell; Steroid binding; Tumor cell; (Human prostatic carcinoma) (Veldscholte, J. (1052) 187)

Specific volume
Interdigitated gel phase; Ethanol; Phase diagram; Dipalmitoylphosphatidylcholine; DSC (Ohki, K. (1028) 215)

Spectral property
3-Ketosteroid-Δ^1-dehydrogenase; ESR; Semiquinone; Redox property (Itagaki, E. (1040) 281)

Spectrin
Actin; Cytoskeleton; Mercurial; Ankyrin; Band 3 protein (Clark, S.J. (1021) 141)

Osmotic fragility; Critical cell volume; ATP level; (Bovine erythrocyte) (Mosior, M. (1022) 355)

Cytoskeleton; Actin binding; Calmodulin binding; (Rat liver) (Falchetto, R. (1039) 73)

Spectrin denaturation
Phospholipid asymmetry; Membrane skeleton; (Human) (Gudi, S.R.P. (1023) 63)

Membrane; Lipid asymmetry; Phospholipid–spectrin interaction; Erythrocyte heating (Kumar, A. (1030) 269)

Spectroelectrochemistry
Microperoxidase; RVC thin-layer electrode; Active site; Reticulated vitrous carbon (Zamponi, S. (1034) 294)

Spectroscopy
Cytochrome oxidase; Organic solvent; Enzyme kinetics; Micelle (Bona, M. (1020) 94)

Poly(ethyleneglycol); Liposome; Surface potential; Aggregation; Electrophoresis; Fluorescence; ESR (Arnold, K. (1022) 303)

X-ray crystallography; Iron; (*C. deformis*) (Alagna, L. (1036) 71)

Sperm
Cholesterol sulfate; Acrosome reaction; Membrane fusion; Fertilization; Membrane destabilization (Cheetham, J.J. (1024) 367)

Anion channel blocker; Anion transport; Adenylate cyclase; Bicarbonate; cyclic AMP (Tajima, Y. (1034) 326)

Adenylate cyclase; Bicarbonate; Proteinase; Proteinase inhibitor (Okamura, N. (1035) 83)

Sperm-activating peptide
Energy metabolism; Phosphatidylcholine; Fatty acid oxidation; (Sea-urchin spermatozoa) (Mita, M. (1035) 175)

Sperm adhesion
Bindin; Fucan; Polyanion; Recognition; Sulfate ester (DeAngelis, P.L. (1037) 100)

Spermatogenesis
Gene expression; Heat shock; (Rat) (Wiśniewski, J. (1048) 93)

Phosphoglycerate kinase; Cell culture; Gene regulation (Tamaru, M. (1049) 331)

Spermatozoa
Respiration; Motility; Oxidative phosphorylation; Caffeine; Epididymal spermatozoa; (Bull) (Halangk, W. (1015) 243)

Spermine
Calcium ion transport; Brain mitochondrion; Mitochondrion (Rottenberg, H. (1016) 77)

Spherulation
Histone synthesis; Differentiation; (*P. polycephalum*) (Heads, R.J. (1053) 56)

Sphinganine
Sphingosine; Sphingolipid; Protein kinase C; Growth; Cytotoxicity; (Chinese hamster ovary cell) (Stevens, V.L. (1051) 37)

Sphingolipid
Transition-state analogue; Enzyme inhibitor; β-Glucosidase; (Human) (Greenberg, P. (1039) 12)

Sphingosine; Ceramide; Sphingomyelin; Phospholipid; Choline; Serine; Palmitic acid; Protein kinase (Merrill, Jr., A.H. (1044) 1)

Sphingosine; Sphinganine; Protein kinase C; Growth; Cytotoxicity; (Chinese hamster ovary cell) (Stevens, V.L. (1051) 37)

Sphingolipidosis
Gaucher disease; Glucocerebrosidase; β-Glucosidase; Lysosomal storage disease; Activator protein; (Human spleen) (Aerts, J.M.F.G. (1041) 55)

Sphingomyelin
Cholesterol; Sphingomyelinase; Cholesterol oxidase; Cholesterol transport; (Baby hamster kidney cell); (BHK-21 cell) (Slotte, J.P. (1030) 251)

Sialyltransferase; Skeletal muscle; Ganglioside synthesis; Acetylcholine (Dasgupta, S. (1036) 11)

Dietary fat; Fluidity; HDL; Phosphatidylcholine; Fluorescence polarization; (Human) (Sola, R. (1043) 43)

HDL; Phosphatidylcholine; Fatty acid; Very-long-chain saturated fatty acid; Tissue metabolism; (Rat tissue) (Bentejac, M. (1043) 134)

Sphingosine; Ceramide; Sphingolipid; Phospholipid; Choline; Serine; Palmitic acid; Protein kinase (Merrill, Jr., A.H. (1044) 1)

Sphingomyelinase
Cholesterol efflux; HDL; Sphingomyelin degradation; (Human fibroblast) (Slotte, J.P. (1025) 152)

Sphingomyelin; Cholesterol; Cholesterol oxidase; Cholesterol transport; (Baby hamster kidney cell); (BHK-21 cell) (Slotte, J.P. (1030) 251)

Sphingomyelin degradation
Cholesterol efflux; HDL; Sphingomyelinase; (Human fibroblast) (Slotte, J.P. (1025) 152)

Sphingosine
Ceramide; Sphingomyelin; Sphingolipid; Phospholipid; Choline; Serine; Palmitic acid; Protein kinase (Merrill, Jr., A.H. (1044) 1)

Sphinganine; Sphingolipid; Protein kinase C; Growth; Cytotoxicity; (Chinese hamster ovary cell) (Stevens, V.L. (1051) 37)

Spillover
Photoacoustics; Photosystem I; Photosystem II; Energy transfer; (Marine alga) (Malkin, S. (1016) 177)

Spinal cord
Cell culture; Glial development; Myelination; (Rat glial cell) (Van der Pal, R.H.M. (1051) 159)

Spin label
Partition coefficient; Fluorescence; Membrane (Lissi, E. (1021) 46)

Myelin basic protein; Apocytochrome *c*; Cytochrome *c*: Fatty acid titration; ESR (Sankaram, M.B. (1021) 63)

Erythrocyte membrane; Osmotic pulse; Ionic strength; Inositol hexaphosphate; ESR (Wyse, J.W. (1022) 87)

Steroid; Dioleoylphosphatidylcholine; Digalactosyldiacylglycerol; Cholestane spin label; Order parameter; Dynamics (Korstanje, L.J. (1022) 155)

Golgi membrane; Streptozotocin diabetes; ESR; Membrane fluidity; (Rat) (Kordowiak, A.M. (1022) 296)

Indocarbocyanine dye; Gel-fluid partitioning; Model membrane; Fluorescence quenching; Partition coefficient; ESR (Spink, C.H. (1023) 25)

Clathrin; Coated vesicle; Lipid–protein interaction; ESR; (Bovine brain) (Privat, J.-P. (1023) 274)

NMR, ^{19}F-; NMR, ^{13}C-; Calorimetry; Phase transition; Molecular probe; Fluorescence lifetime; Phospholipid vesicle (Bammel, B.P. (1024) 61)

Bacteriophage M13; Coat protein; Saturation transfer ESR; ESR (De Jongh, H.H.J. (1024) 82)

Fatty acid; Hexagonal H_{II} phase; Cubic phase; ESR; NMR, ^{31}P- (Rama Krishna, Y.V.S. (1024) 89)

Thylakoid membrane; Stacking/destacking; Protein phosphorylation; Photosystem; Lipid–protein interaction; ESR (Li, G. (1024) 278)

Membrane skeletal protein; Erythrocyte membrane; Alzheimer's disease; Structure–activity (Palmieri, D.A. (1024) 285)

DPPC; Phase transition; Electrolyte; ESR (Bartucci, R. (1025) 117)

Phospholipid flippase; Lipid peroxidation; Malonyldialdehyde; ESR (Herrmann, A. (1027) 41)

ESR; Membrane fluidity; Alcohol; Phenol; Platelet aggregation; (Bovine platelet) (Kitagawa, S. (1027) 123)

Nicotinic acetylcholine receptor; Fluorescence quenching; Cholesterol; ESR; (*Torpedo marmorata*) (Arias, H.R. (1027) 287)

Nitroxide spin label; Reduction; Flavin; Photoreduction; ESR (Morse II, P.D. (1034) 298)

Ligand binding; Allosteric interaction; Serum albumin (bovine and human); Fatty acid; Hematoporphyrin; ESR (Gantchev, T.G. (1037) 422)

Electron paramagnetic resonance; Sickle cell erythrocyte; TEMPAMINE; Erythrocyte membrane; Hemoglobin–hemoglobin interaction (Morse II, P.D. (1053) 49)

Spin labeling
Coupling factor; Photophosphorylation; ESR; CF_1; Conformational dynamics (Gantchev, T. (1015) 69)

Phosphatidylcholine tubule; NMR; ESR (Treanor, R. (1046) 1)

DNA modification; Guanine modification (Weygand-Durasevic, I. (1048) 38)

Spin label reduction
ESR; Hypoxanthine; Xanthine oxidase; Nitroxide reduction; Oxygen radical; Semiquinone; Liposome; Quinone; Antitumor drug; Anthracycline (Alegría, A.E. (1035) 51)

Spleen macrophage
Opsonin; Phagocytosis; Liposome; Kupffer cell; Calcium (Moghimi, S.M. (1028) 304)

S20 protein
Amino acid sequence; Ribosomal protein S20; Protein primary structure; (Rat) (Chan, Y.-L. (1049) 93)

Squalene synthetase
Cholesterol 7α-hydroxylase; 3-Hydroxy-3-methylglutaryl-CoA reductase; (Pig) (Kwekkeboom, J. (1042) 146)

SSI gene
Proteinase inhibitor; *Streptomyces* subtilisin inhibitor gene; Secretory expression; Signal peptide processing; Codon usage; (*Streptomyces*) (Taguchi, S. (1049) 278)

S state
Oxygen evolution; ESR multiline; Thermoluminescence; Photosystem II; Calcium ion depletion (Ono, T.-A. (1015) 373)

Oxygen evolution; Photosystem II (Van Leeuwen, P.J. (1018) 173)

S-state decay
Photosystem II; Water-oxidizing complex; Tyrosine-D; Oxygen evolution (Vass, I. (1017) 63)

S′-subsite specificity
Acyl transfer reaction; Endoproteinase Glu-C; Nucleophile efficiency; Enzymatic peptide synthesis; (*Staphylococcus* V8) (Schuster, M. (1036) 245)

Stabilization
cAMP-dependent protein kinase; Catalytic subunit; Purification; Crystallization; (Bovine heart) (Okuno, S. (1038) 204)

Heat capacity; Enthalpy; Entropy; Gibbs energy; Globular protein (Khechinashvili, N.N. (1040) 346)

Stable RNA operon
Trans-activation; FIS; EF-Tu; Transcription regulation; (*E. coli*) (Bosch, L. (1050) 293)

Stable RNA synthesis
Upstream activating sequence; FIS (Verbeek, H. (1050) 302)

Stacking
U · G basepair; RNA structure (Van Knippenberg, P.H. (1050) 14)

Stacking/destacking
Thylakoid membrane; Protein phosphorylation; Photosystem; Lipid–protein interaction; Spin label; ESR (Li, G. (1024) 278)

Starch breakdown
State transition; ATP depressing treatment; Photophosphorylation, cyclic; (*C. reinhardtii*) (Bulté, L. (1020) 72)

Starvation
D-β-Hydroxybutyrate dehydrogenase; Ketone body; Insulin control; Hyperlipidemic diet (Kante, A. (1033) 291)

Brown adipose tissue; Alanine; Cold exposure; Insulin; Noradrenaline; (Rat) (López-Soriano, F.J. (1036) 6)

Cytochrome *P*-450; Lauric acid hydroxylase; (Rat renal microsome) (Imaoka, S. (1036) 18)

Lipoprotein lipase; Enzyme activity; (Rat liver) (Peinado, J. (1043) 7)

State I–state II transition
Cyanobacterium; Photosynthesis; (*Anacystis nidulans*) (Williams, W.P. (1015) 121)

Mitochondrial respiration; Glycolysis; Fluorescence; Respiration and photosynthesis interaction (Gans, P. (1015) 150)

State transition
Photosynthesis; Fluorescence decay; Photosystem II; Phycobilisome; Cyanobacterium; (*Synechococcus* sp.) (Mullineaux, C.W. (1015) 231)

Light harvesting complex phosphorylation; *p*-Benzoquinone; (*C. reinhardtii*) (Bulté, L. (1016) 253)

ATP depressing treatment; Photophosphorylation, cyclic; Starch breakdown; (C. *reinhardtii*) (Bulté, L. (1020) 72)

Staurosporine
Tumor promoter; Prostaglandin E_2; Arachidonic acid; Phorbol ester; Cycloheximide; (Rat peritoneal macrophage) (Watanabe, M. (1047) 141)

Alveolar macrophage; Arachidonic acid; Hydrogen peroxide; Protein kinase C; Phorbol myristate acetate (Sporn, P.H.S. (1047) 192)

Protein kinase C; Phorbol ester; Antiporter, Na^+/H^+; (Rat aortic smooth muscle cell) (Boscoboinik, D.O. (1052) 499)

Protein kinase C; Retinoic acid; Cell differentiation; (Human neuroblastoma) (Slack, R.S. (1053) 89)

Steady-state-fluorescence polarization
Phosphatidylethanolamine; Phosphatidylglycerol; Partition coefficient; Parinaroyl phospholipid; Fluorescence polarization (Martin, L.R. (1023) 383)

Steady state kinetics
Cytochrome oxidase; Mitochondrial membrane; Ethanol consumption; (Rat liver) (Thayer, W.S. (1016) 333)

ATPase, Na^+/K^+-; Phosphate (Plesner, L. (1040) 167)

Stearic acid
Adsorption; Monolayer penetration; Procaine; pH effect (Zsakó, J. (1024) 227)

Stearic acid binding
Bovine serum albumin; Hydrogen bond, double; EPR (Ge, M. (1036) 228)

Stentorin
Electron microscopy; Fluorescence; HPLC; Photoreceptor; Pigment granule; (*S. coerulus*) (Kim, I.-H. (1040) 43)

Fluorescence; Fluorescence lifetime; Photoreceptor; Primary photoprocess; Proton dissociation; (*Stentor coeruleus*) (Song, P.-S. (1040) 58)

Stereochemistry
Dilauroylphosphatidylcholine; Lipid bilayer; Infrared spectroscopy (Pidgeon, C. (1029) 173)

Stereoisomer
Sodium/potassium/chloride cotransport; 2-Butanol; 2,4-Pentanediol; Anesthetic; (Rat glioma cell) (Tas, P.W.L. (1026) 40)

Stereospecificity
NMR; Alcohol dehydrogenase; (*S. Solfataricus*) (Trincone, A. (1041) 94)

Steroid
Dioleoylphosphatidylcholine; Digalactosyldiacylglycerol; Cholestane spin label; Order parameter; Dynamics; Spin label (Korstanje, L.J. (1022) 155)

NADPH oxidase; Cell-free system; Respiratory burst; (Human neutrophil) (Umeki, S. (1052) 211)

Steroid binding
Androgen receptor; LNCaP tumor cell; Tumor cell; Specificity; (Human prostatic carcinoma) (Veldscholte, J. (1052) 187)

Steroid hormone
Hormone receptor; Protein phosphorylation (Moudgil, V.K. (1055) 243)

Steroid hormone biosynthesis
Adrenal cortex; Mitochondrion; Hormonal regulation; Second messenger (Orme-Johnson, N.R. (1020) 213)

Steroid metabolism
Cytochrome *P*-450; Enzyme purification; Hepatoma; (Mouse liver) (Lange, R. (1038) 130)

Steroidogenesis
HDL; Cholesterol ester metabolism; Adrenal; Lipid storage droplet; Cholesterol esterase (Sparrow, C.P. (1043) 203)

Sterol
Abscisic acid; Sitosterol; Campesterol; Phospholipid bilayer; Membrane (Stillwell, W. (1024) 345)

Lipid transfer protein; Lipid composition (Billheimer, J.T. (1046) 136)

Sterol–ATPase interaction
ATPase, $(Ca^{2+} + Mg^{2+})$-; Phospholipid structure; Lipid bilayer (Michelangeli, F. (1025) 99)

Sterol balance
Sterol synthesis; Water, tritium labeled; Dietary fat; 3-Hydroxy-3-methylglutaryl-CoA reductase; Bile acid synthesis; (Guinea-pig) (Fernandez, M.L. (1044) 340)

Sterol biosynthesis
24β-Methylsterol end-product; Sterol intermediate; Ergosterol; Isomerization; (*G. fujikuroi*) (Nes, W.D. (1042) 119)

Sterol carrier protein
Tumor; Metastatis; Cholesterol; Fluorescence; Membrane fluidity (Kier, A.B. (1022) 365)

Sterol carrier protein 2
Lipid transfer protein, non-specific; Peroxisome; (Rat tissue) (Van Heusden, G.P.H. (1046) 315)

Sterol intermediate
24β-Methylsterol end-product; Sterol biosynthesis; Ergosterol; Isomerization; (*G. fujikuroi*) (Nes, W.D. (1042) 119)

Sterol synthesis
Water, tritium labeled; Dietary fat; Sterol balance; 3-Hydroxy-3-methylglutaryl-CoA reductase; Bile acid synthesis; (Guinea-pig) (Fernandez, M.L. (1044) 340)

Normolipidemic serum; Cell specific association; Cholesterol esterification; Atherosclerosis; (Human hepatoma cell line) (Swinkels, D.W. (1047) 212)

Stopped flow
Phospholipid vesicle; Liposome; Intravesicular volume; Freeze-thaw; ESR (Anzai, K. (1021) 21)

Reduced ubiquinone; Tocopheroxyl radical; Reaction rate (Mukai, K. (1035) 77)

Stopped-flow fluorimeter
Butyrylcholinesterase; Electrophoresis; Conformational plasticity; Solvent effect (Masson, P. (1041) 223)

Stopped-flow kinetics
Flavocytochrome b_2; Cytochrome *c*; Semiquinone; Electron exchange (Janot, J.-M. (1016) 165)

Stratum corneum
Liposome; Corneocyte; Cell envelope (Abraham, W. (1021) 119)

Streptavidin
Protein-liposome conjugate; Biotin; Vesicle aggregation; Liposome preparation; Freeze-fracture (Loughrey, H.C. (1028) 73)

Streptokinase
Prostacyclin synthesis; Phospholipase A_2; Phospholipase C (Kawaguchi, H. (1055) 223)

***Streptomyces* subtilisin inhibitor gene**
Proteinase inhibitor; SSI gene; Secretory expression; Signal peptide processing; Codon usage; (*Streptomyces*) (Taguchi, S. (1049) 278)

Streptomycin
Mutagenesis; Ribosomal RNA; Protein synthesis (Frattali, A.L. (1050) 27)

Streptozotocin
Protein phosphatase; Hepatic metabolism; Diabetes; Fasting; (Rat liver) (Csortos, C. (1052) 235)

Streptozotocin diabetes
Golgi membrane; Spin label; ESR; Membrane fluidity; (Rat) (Kordowiak, A.M. (1022) 296)

Streptozotocin-induced diabetes
D-Glucose transport; Sodium ion dependence; Insulin; Glucose effect; Brush-border membrane vesicle; (Kidney) (Yasuda, H. (1021) 114)

Stress
Heat shock protein; Protein induction; Low temperature (Lanks, K.W. (1034) 62)

Stringent response
Protein synthesis; Accuracy; Elongation factor; aminoacyl tRNA; Computer simulation (Pingoud, A. (1050) 252)

***String* gene**
Nuclear antigen; Antigen distribution; Embryogenesis; Cyclin; (*Drosophila*) (Gay, N.J. (1049) 249)

Strontium ion
Ionophore A23187; Calcium ion; Manganese ion; Ankyrin; Calmodulin; Calpain; Erythrocyte; Phospholipid; Flip-flop (Henseleit, U. (1029) 127)

Strontium ion transport
Transport stoichiometry; ATPase; Ca^{2+}-; Acetyl phosphate; Calcium ion transport; Sarcoplasmic reticulum; (Rabbit) (Berman, M.C. (1029) 235)

Structural property
Bromoperoxidase; Vanadium enzyme; (*A. nodosum*) (Tromp, M.G.M. (1040) 192)

Structural relationship
Glyceraldehyde-3-phosphate dehydrogenase (NADP); Chloroplast isoenzyme; Complete primary structure; (Spinach) (Ferri, G. (1041) 36)

Structural specificity
Prostacyclin; α-Tocopherol; Vitamin E; Arachidonate metabolism; (Human endothelial cell) (Tran, K. (1043) 189)

Structure–activity
Spin label; Membrane skeletal protein; Erythrocyte membrane; Alzheimer's disease (Palmieri, D.A. (1024) 285)

Structure–activity relationship, quantitative
Uncoupler; Uncoupling activity; Oxidative phosphorylation; Phenol, substituted (Miyoshi, H. (1016) 99)

Structure–function
Anion transport; Brown adipose tissue; Mitochondrion; Uncoupling protein; Non-ohmic transport (Garlid, K.D. (1018) 151)

Structure of inhibitor proteinase complex
Viral polyprotein; Processing; HIV; Rhinovirus; Poliovirus; Picornaviral 3C and 2A cysteine proteinase; Retroviral aspartic proteinase; Substrate; Inhibitor (Kay, J. (1048) 1)

Subcellular distribution
Phospholipase A_2; Purification; Lung surfactant; (Rabbit) (Filgueiras, O.M.O. (1046) 258)

Subcellular fraction
Selenium; Selenoprotein; Glutathione peroxidase; (Rat liver) (Behne, D. (1033) 219)

Phospholipase A_2; Arachidonic acid; Phospholipid; (Human neutrophil) (Diez, E. (1047) 83)

Subcellular fractionation
Plasma membrane; Neuroblastoma; Glioma; Phosphoinositide; Inositol cycle; Cell culture (Morris, S.J. (1022) 339)

Sublobular region
Ureogenesis; Oxygen tension; (Rat hepatocyte) (Takei, Y. (1036) 242)

Submandibular gland
ATPase, α-subunit; ATPase, Na^+/K^+-; (Rat) (Kurihara, K. (1039) 234)

Actin-binding protein; Saliva; Seminal vesicle; (Human seminal plasma) (Akiyama, K. (1040) 206)

Submitochondrial particle
Adrenochrome; Redox cycling; Pulse radiolysis; Free radical (Bindoli, A. (1016) 349)

Substance P
Antagonist; Peptide area; p*K*; Surface activity; Air/water interface (Seelig, A. (1030) 111)

Substituent effect
Electron transfer; Succinate cytochrome *c* reductase; Q binding site; Quinol derivative; (Mitochondria) (Gu, L.-Q. (1015) 482)

Substituted rigidly linked diquinoline
DNA interaction (McFadyen, W.D. (1048) 50)

Substrate
Viral polyprotein; Processing; HIV; Rhinovirus; Poliovirus; Picornaviral 3C and 2A cysteine proteinase; Retroviral aspartic proteinase; Inhibitor; Structure of inhibitor proteinase complex (Kay, J. (1048) 1)

Substrate analog
Aldolase; Bisphosphoric ester; Active site; Binding constant (Ogata, H. (1041) 254)

Phospholipase C, phosphatidylinositol-specific; Inhibition; Phosphonate; (*Bacillus cereus*) (Shashidhar, M.S. (1042) 410)

Substrate binding
Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Conformational change; Fluorescent probe; Thiol reagent; Enzyme reaction mechanism (Kubo, K. (1040) 251)

Substrate concentration dependence
ATPase, Na^+/K^+-; Ion transport; Sodium-only mode; Activation energy; Transport stoichiometry (Apell, H.-J. (1023) 81)

Substrate-derived inhibitor
Competitive inhibition; Enzyme inhibition; Phospholipase A_2 (De Haas, G.H. (1046) 249)

Substrate-enzyme complex
Creatine kinase; NMR, ^{31}P-, saturation transfer; Radioisotope exchange; Rate determining step (Kupriyanov, V.V. (1020) 290)

Substrate inhibition
Acetylcholinesterase; Freezing lability; Chaotrope; Hydrophobic interaction; (Mosquito) (Dary, O. (1039) 103)

Substrate specificity
Peptidase; Inhibitor sensitivity; Trypanosome (Ashall, F. (1035) 293)

Cysteine proteinase; Cruzipain; Urea activation; (*Trypanosoma cruzi*) (Cazzulo, J.J. (1037) 186)

Lipoprotein lipase; Bovine serum albumin; Acylglycerol; Kinetics; (Human milk); (Bovine milk) (Wang, C.-S. (1043) 143)

Choline kinase; Molecular weight; Activator; (Rat brain) (Uchida, T. (1043) 281)

Hepatic lipase; Mixed micelle; Phospholipid; Phospholipid hydrolysis (Thuren, T. (1046) 178)

Protein phosphatase; Protein phosphorylation; Synthetic peptide; Cell regulation; Enzymology (Deana, A.D. (1051) 199)

Substrate structure
Phosphoinositide specific phospholipase C; Phospholipase C_α (Cruz-Rivera, M. (1042) 113)

***a*-Subunit**
ATPase, F_0F_1-; Ion channel; Site-directed mutagenesis; (*E. coli*) (Howitt, S.M. (1015) 264)

Subunit
ATPase, H^+/K^+-; $C_{12}E_8$; Glutaraldehyde; Crosslink; Soluble enzyme (Rabon, E.C. (1039) 277)

Subunit, α1
ATPase, Na^+/K^+-; 5′-Flanking region; Gene cloning; Transcription initiation site; (Rat) (Yagawa, Y. (1049) 286)

Subunit c
ATP-synthase; Antibody, peptide-specific polyclonal; Conserved region, Gly-18 to Met-57; (*E. coli*) (Hensel, M. (1016) 63)

Subunit δ
ATP synthesis; ATPase, H^+-; OSCP; Photosynthesis (Engelbrecht, S. (1015) 379)

Subunit dissociation
Legumin; Laser light scattering; Protein unfolding; Circular dichroism (Chambers, S.J. (1037) 66)

Subunit exchange
Chloroplast coupling factor; Epsilon subunit; Dithiothreitol; (*C. reinhardtii*) (Duhe, R.J. (1017) 70)

Subunit expression
ATPase, Na^+/K^+-; cDNA; Enzyme isoform (Dhir, R. (1026) 141)

Subunit interaction
Guanylate cyclase; Radiation inactivation; Nitro compound; (Rat lung) (Saheki, S. (1051) 306)

Subunit specificity
Proteinase; Chymotrypsin; Diisopropylfluorophosphate; Enzyme subunit; Multifunctional enzyme; (Chicken liver) (Sato, S. (1041) 269)

Subunit structure
Cytochrome *c* oxidase; Brown fat tissue; Amino acid sequence; Tissue-specific expression; Immunoassay; (Rat) (Kadenbach, B. (1015) 368)

Subzero partitioning
Two-phase system; Synaptic membrane; Acetylcholinesterase; Succinate dehydrogenase (Johansson, G. (1029) 295)

Succinate cytochrome *c* reductase
Electron transfer; Q binding site; Quinol derivative; Substituent effect; (Mitochondria) (Gu, L.-Q. (1015) 482)

Succinate dehydrogenase
Two-phase system; Subzero partitioning; Synaptic membrane; Acetylcholinesterase (Johansson, G. (1029) 295)

Succinate : quinone oxidoreductase
EPR; Heme iron; (*B. subtilis*) (Fridén, H. (1041) 207)

Sucrase-isomaltase
Enzyme purification; Microvillous membrane; (Goose kidney) (Galand, G. (1033) 35)

Sucrose
Phase transition; Trehalose; Membrane permeability; Carboxyfluorescein; Dimyristoylphosphatidylcholine; Liposome (Fabrie, C.H.J.P. (1024) 380)

Sugar chain
Amyloid P component; Sialic acid (Hamazaki, H. (1037) 435)

Sugar transport
Lysolipid; Alkyl lysolipid; Red blood cell; Lipid–protein interaction; Antineoplastic immunomodulatory agent (Melchior, D.L. (1028) 1)

Suicide substrate
Thrombin; Plasmin; Plasminogen activator; Halomethyldihydrocoumarin (Mor, A. (1038) 119)

Sulfamethizole
Bioluminescence; Antibiotic; Thymine; (*P. phosphoreum*) (Watanabe, H. (1017) 229)

Sulfane sulfurtransferase
Rhodanese; Fluorescence spectroscopy; Circular dichroism; Fluorescence quenching; Second derivative absorption spectroscopy; Renaturation (Aird, B.A. (1038) 10)

Sulfate
Sulfite reductase; Reducing bacterium; Thermophile; ESR; (*D. thermophilus*) (Fauque, G. (1040) 112)

Sulfated polysaccharide
Proteinase; Proacrosin; Fertilization; Adhesion molecule (Jones, R. (1037) 227)

Sulfate efflux
Erythrocyte; Band 3 protein; Eosin-5-maleimide; Cysteine residue; Circular dichroism; Exciton coupling (Chiba, T. (1025) 199)

Sulfate ester
Bindin; Fucan; Polyanion; Recognition; Sperm adhesion (DeAngelis, P.L. (1037) 100)

Sulfatide
Phospholipase C; Phospholipase A_2; Ganglioside; (Porcine pancreas); (*C. perfringens*) (Bianco, I.D. (1026) 179)

Medium anisosmosis; MDCK; (Kidney cell lines) (Niimura, Y. (1052) 248)

Sulfation
Proteoglycan; Extracellular matrix; Glomerulus; (Rat) (Templeton, D.M. (1033) 235)

Sulfhydryl agent
ATPase, Cl^--stimulated; Chloride stimulated ATPase; Basolateral plasma membrane; Gut; (*Aplysia*) (Gerencser, G.A. (1023) 475)

Sulfhydryl group
Arginine-ornithine antiporter; Cation exchange; (*L. lactis*) (Driessen, A.J.M. (1015) 87)

Monocarboxylate carrier; Pyruvate transport; (Bovine heart mitochondria) (Nałęcz, K.A. (1016) 272)

Bilitranslocase; Electrogenic transport; Bilirubin; Sulfobromophthalein; (Rat liver) (Passamonti, S. (1021) 9)

Epithelial membrane transport; Brush-border membrane; 1,25-Dihydroxycholecalciferol; (Chick duodenum) (Mykkanen, H.M. (1033) 282)

Threonine metabolism; L-Threonine dehydrogenase; Disulfide bond; Metal-ion activation (Craig, P.A. (1037) 30)

Protein modification; Carbodiimide (Lin, C. (1038) 382)

Phospho*enol*pyruvate carboxykinase; (*S. cerevisia*) (Cardemil, E. (1040) 71)

Sulfhydryl group oxidation
Calcium ion indicator; Arsenazo III; ATPase, $(Ca^{2+} + Mg^{2+})$- (Beeler, T. (1027) 264)

Sulfhydryl location
HMG-CoA synthase; (Avian liver) (Miziorko, H.M. (1041) 273)

Sulfhydryl modification
Glucosamine-6-phosphate deaminase; Vicinal sulfhydryl; Zinc binding (Altamirano, M.M. (1038) 291)

Sulfhydryl peptide
Apolipoprotein B-100; Amino acid sequence; LDL; Lipoprotein (a); Fluorescent labeling (Coleman, R.D. (1037) 129)

Sulfhydryl reagent
Potassium ion current; pH titration; pH microelectrode; Carboxy reagent; Kinetics; (Frog skin) (Onken, H. (1024) 95)

Sulfhydryl reagent, organic
Bile acid uptake; Membrane transport; Bile acid conjugate; (Rat hepatocyte) (Blumrich, M. (1029) 1)

Sulfite
CF_1; ATPase; *N*-Ethylmaleimide; Chloroplast; (Spinach) (Umbach, A.L. (1020) 278)

Sulfite reductase
Sulfate; Reducing bacterium; Thermophile; ESR; (*D. thermophilus*) (Fauque, G. (1040) 112)

Sulfluramid
Perfluorooctane sulfonamide; Uncoupler; Oxidative phosphorylation (Schnellmann, R.G. (1016) 344)

Sulfobromophthalein
Bilitranslocase; Electrogenic transport; Sulfhydryl group; Bilirubin; (Rat liver) (Passamonti, S. (1021) 9)

Bilitranslocase; Anion transport; Erythrocyte ghost; (Erythrocyte membrane) (Miccio, M. (1023) 140)

Bilitranslocase; Electrogenic transport; Arginine residue; Bilirubin; (Rat liver) (Passamonti, S. (1025) 122)

Sulfolipid metabolism
Development; Myelination; Arylsulfatase A; Cerebroside sulfatase; (Rat brain) (Van der Pal, R.H.M. (1043) 91)

Sulfur oxygenation
Alkylthioacetic acid; Omega oxidation; Peroxisome proliferator; (Liver); (Kidney); (Lung); (Muscle); (Intestine) (Bergseth, S. (1045) 90)

Superoxide
Immunoglobulin G; Degranulation; Chemotactic peptide; (Human neutrophils) (Aaku, E. (1052) 243)

Phosphorylation; Proteins, 47 an 49 kDa; Neutrophil (Heyworth, P.G. (1052) 299)

Hypochlorous acid; Myeloperoxidase; (Human neutrophils) (Kettle, A.J. (1052) 379)

Superoxide anion
Hemocyanin; Apohemocyanin; SOD-like; Pulse radiolysis (Quéinnec, E. (1041) 153)

Glycated polylysine; Chemiluminescence; Iron-glycated polylysine complex; Lipid peroxidation (Sakurai, T. (1043) 27)

Concanavalin A; Membrane glycoprotein; Cell differentiation; (4937 cell line) (Balsinde, J. (1052) 90)

Superoxide anion radical
Phosphatidylethanolamine *N*-methylation; *N*-Methylation; Free radical; Hydrogen peroxide; Cardiac sarcolemma; Sarcoplasmic reticulum; (Rat) (Kaneko, M. (1021) 33)

Superoxide dismutase
Tryptophan metabolism; Oxidation; Oxygen; Catalase; 3-Hydroxyanthranilic acid (Manthey, M.K. (1034) 207)

Oxygen radical; Hydrogen peroxide; Pneumocyte; Albumin; Surfactant; Surfactant replacement; Catalase (Matalon, S. (1035) 121)

Oxygen toxicity; Cell growth; Prostaglandin; Catalase; (Rat lung fibroblast) (Tanswell, A.K. (1044) 269)

Superoxide generation
NADPH oxidase; Nucleotide binding; NADPH binding site; Cytosolic factor; (Macrophage) (Sha'ag, D. (1037) 405)

Lipid peroxidation; Cytochrome *P*-450; NADPH–cytochrome *P*-450 reductase; (Human placental mitochondria) (Klimek, J. (1044) 158)

Neutrophil; Signal transduction; Protein kinase; (Guinea pig) (Robinson, J.M. (1055) 55)

Superoxide radical
Aging; Mitochondrial function; Glutathione; Lipid peroxidation; Cardiac hypertrophy; (Senescent rat heart) (Muscari, C. (1015) 200)

Suppressor
Translational fidelity; Allosuppressor; (*A. nidulans*) (Perera, S. (1050) 279)

Temperature sensitive mutation; 16S rRNA leader; rRNA leader (Mori, H. (1050) 323)

Surface activity
Substance P; Antagonist; Peptide area; p*K*; Air/water interface (Seelig, A. (1030) 111)

Development; Fetal lung; Lung surfactant; Phospholipid; Surfactant protein; (Rat fetus) (Farrell, P.M. (1044) 84)

Surface charge
Dielectrophoresis; Cell surface; Membrane conductivity; (Friend murine erythroleukemia cell); (Human red blood cell) (Burt, J.P.H. (1034) 93)

Surface charge density
Electrophoretic mobility; Cation adsorption; Monovalent cation adsorption; Phosphatidylserine; Phosphatidylcholine; Liposome (Ermakov, Y.A. (1023) 91)

Surface conductance
Concanavalin A; Lipopolysaccharide; Agglutinin, peanut; Membrane capacity; Membrane conductivity; Electrorotation (Hu, X. (1021) 191)

Surface hydrophobicity
X-ray photoelectron spectroscopy; (*B. licheniformis*) (Herben, P.F.G. (1033) 184)

Surface potential
Poly(ethyleneglycol); Liposome; Aggregation; Electrophoresis; Fluorescence; Spectroscopy; ESR (Arnold, K. (1022) 303)

Protein–lipid interaction; pH dependence; Melittin; Gouy-Chapman model (Stankowski, S. (1025) 164)

Membrane potential; Proton linked transport (Cerbón, J. (1028) 261)

Surface probing
Quarternary structure; Tryptophan localization; Rat αB-crystallin; Differential splicing (Hendriks, W. (1037) 58)

Surface tension
Pulmonary surfactant; Proteolipid (Takahashi, A. (1044) 43)

Lung surfactant; Elasticity; Monolayer; Free energy; Enthalpy; Entropy (Vodyanoy, V. (1047) 284)

Surface tension reduction
Surfactant-associated protein; Adsorption; Monolayer formation; Phospholipid squeeze-out (Yu, S.-H. (1046) 233)

Surfactant
Purple membrane; Bacteriorhodopsin; Light adaptation; Solubilization (González-Mañas, J.M. (1019) 167)

Amphotericin B; Sodium deoxycholate; Lauryl sucrose; Micelle; Aggregation (Tancrède, P. (1030) 289)

Oxygen radical; Hydrogen peroxide; Pneumocyte; Albumin; Surfactant replacement; Superoxide dismutase; Catalase (Matalon, S. (1035) 121)

β-Endorphin; Proteolysis; Circular dichroism; Lipid; (Human) (Pasta, P. (1039) 1)

Surfactant-associated protein
Adsorption; Surface tension reduction; Monolayer formation; Phospholipid squeeze-out (Yu, S.-H. (1046) 233)

Surfactant cycling
Lung surfactant subtype; Surfactant metabolism; Proteinase inhibitor; α_1-Antitrypsin (Gross, N.J. (1044) 222)

Surfactant metabolism
Lung surfactant subtype; Surfactant cycling; Proteinase inhibitor; α_1-Antitrypsin (Gross, N.J. (1044) 222)

Surfactant protein
Development; Fetal lung; Lung surfactant; Phospholipid; Surface activity; (Rat fetus) (Farrell, P.M. (1044) 84)

Surfactant replacement
Oxygen radical; Hydrogen peroxide; Pneumocyte; Albumin; Surfactant; Superoxide dismutase; Catalase (Matalon, S. (1035) 121)

Surfactant synthesis
Fatty acid synthesis; Fatty acid synthetase; Glucocorticoid induction; Lung surfactant; (Human fetal lung) (Gonzales, L.W. (1042) 1)

Synaptic membrane
Two-phase system; Subzero partitioning; Acetylcholinesterase; Succinate dehydrogenase (Johansson, G. (1029) 295)

Synaptic plasma membrane
Cholesterol; Dehydroergosterol; Ethanol; Membrane domain; Membrane asymmetry; Fluorescence (Wood, W.G. (1025) 243)

Zeta potential; Aminopyridine; Calcium ion dependence (Smejtek, P. (1029) 259)

Synaptic vesicle
GTP-binding protein; Synaptophysin; (Bovine brain) (Matsuoka, I. (1026) 99)

Synaptophysin
GTP-binding protein; Synaptic vesicle; (Bovine brain) (Matsuoka, I. (1026) 99)

Synaptosome
ATPase, Ca^{2+}-; Electric organ; Presynaptic receptor (Donnet, C. (1030) 195)

Syncytia
Paramyxovirus; Cholesterol; Calmodulin antagonist; Cerulenin; Inhibitor of cholesterol synthesis; (Vero cell) (Malvoisin, E. (1042) 359)

Synexin
Annexin; Calelectrin; Chromaffin granule; Exocytosis; Calcium ion binding protein (Zaks, W.J. (1029) 149)

Synovial fluid
Collagenase; Tissue inhibitor; α_2-Macroglobulin; Metalloproteinase; Proteinase inhibitor complex (Cawston, T. (1033) 96)

Synthetic oligodeoxyribonucleotide
cGMP-binding protein; DNA; (*D. discoideum*) (Parissenti, A.M. (1040) 294)

Synthetic peptide
Monoclonal antibody; Acetylcholine receptor; α-Bungarotoxin binding site (Preston-Hurlburt, P. (1033) 324)

Fluorescence; Solid-phase synthesis (Chersi, A. (1034) 333)

Protein phosphatase; Protein phosphorylation; Cell regulation; Substrate specificity; Enzymology (Deana, A.D. (1051) 199)

Synthetic phosphatidate
Alkaline phosphatase isozyme; Phosphatidate hydrolysis; Sodium deoxycholate; (Human) (Sumikawa, K. (1046) 27)

System A
Amino acid transport; Membrane vesicle; Adaptive regulation; (Rat hepatoma) (Fong, A.D. (1022) 325)

System $b^{0,+}$
Amino acid transport; System L; Development; Preimplantation conceptus; (Mouse egg); (Mouse embryo) (Van Winkle, L.J. (1021) 77)

Amino acid transport; Cation effect; Receptor site structure; (Blastocyst); (Mouse embryo); (Mouse egg) (Van Winkle, L.J. (1025) 215)

System $B^{0,+}$
Amino acid transport; System B; Development; Preimplantation conceptus; (Mouse egg); (Mouse embryo) (Van Winkle, L.J. (1025) 225)

Amino acid transport; System $B^{0,+}$; Development; Preimplantation conceptus; (Mouse egg); (Mouse embryo) (Van Winkle, L.J. (1025) 225)

System L
Amino acid transport; System $b^{0,+}$; Development; Preimplantation conceptus; (Mouse egg); (Mouse embryo) (Van Winkle, L.J. (1021) 77)

System T
Amino acid transport; Development; Tryptophan; Blastocyst; (Mouse embryo) (Van Winkle, L.J. (1027) 268)

T

Tau repetitive sequence
MAP-2 fragment; Tubulin binding domain; Microtubule-associated protein; Anti-idiotypic antibody (Rivas-Berríos, A. (1040) 382)

Taurine transport
Small intestine; Brush border; Calcium ion induced inhibition; Phospholipase C; (Rabbit) (Miyamoto, Y. (1030) 189)

Taurocholic acid
Caco-2; Bile acid; Epithelial transport (Hidalgo, I.J. (1035) 97)

Taurolipid
2,3,7,12,13-Pentahydroxystearic acid; Lipid structure; (*T. thermophila*) (Kaya, K. (1042) 198)

Taurolipid precursor
7,13-Dihydroxy-2-*trans*-octadecenoic acid; (*Tetrahymena*) (Kaya, K. (1042) 338)

T cell
Interleukin; Tyrosine kinase; Protein phosphorylation (Augustine, J.A. (1052) 313)

TEMPAMINE
Electron paramagnetic resonance; Sickle cell erythrocyte; Spin label; Erythrocyte membrane; Hemoglobin–hemoglobin interaction (Morse II, P.D. (1053) 49)

Temperature
Homeoviscous adaptation; Lipid bilayer; Ion channel; Excitable membrane (Macdonald, A.G. (1031) 291)

Temperature adaptation
Fatty acid composition; ATPase, $(Ca^{2+} + Mg^{2+})$-; Lipid composition; Sarcoplasmic reticulum; DSC (Vŕbjar, N. (1030) 94)

Temperature dependence
AE1 protein; Anion transport; Band 3 protein; Erythrocyte; Hypophosphite; Phosphite; Phosphate (Galanter, W.L. (1027) 65)

Temperature jump
Proton transport; Protonophore; Valinomycin; pH jump (Ahmed, I. (1024) 298)

Temperature sensitive mutation
Helicase; CAP binding complex; Conditional expression; Mutation; (*S. cerevisiae*) (Prat, A. (1050) 140)

16S rRNA leader; Suppressor; rRNA leader (Mori, H. (1050) 323)

Teniposide
Partitioning behavior; Membrane–lipid interaction; Lipid composition; Liposome (Wright, S.E. (1021) 105)

Terminal transferase
2′,3′-Dideoxynucleoside triphosphate; Inhibition; (Calf thymus) (Ono, K. (1049) 15)

Ternary complex
Ethionine; eIF-2; Peptide chain initiation; Ribosomal subunit (Lyon, A.W. (1049) 158)

Terpene
Catabolism; Geraniol; Plant cell culture (Berger, R.G. (1055) 234)

Tetrachlorobiphenyl
Retinyl ester hydrolase; Vitamin A; (Rat) (Mercier, M. (1047) 70)

Tetracycline
Meibomian gland; Lipid biosynthesis; Lipid precursor; Inhibition; (Rabbit) (Duerden, J.M. (1042) 13)

Tetradecylthioacetic acid
Dexamethasone; Peroxisomal β-oxidation; Insulin; Growth inhibition; (Morris hepatoma cell) (Norrheim, L. (1051) 319)

Tetraether lipid
Differential thermoanalysis; Calorimetry; Phase transition; (*T. acidophilum*) (Blöcher, D. (1024) 54)

(−)-Δ^8-Tetrahydrocannabinol
X-ray diffraction; DSC; (−)-5′-Iodo-Δ^8-tetrahydrocannabinol; Drug–membrane interaction (Mavromoustakos, T. (1024) 336)

(−)-Δ^9-Tetrahydrocannabinol
Solid state NMR; NMR, ^{2}H-; NMR, ^{13}C-; Model membrane; Drug–membrane interaction (Makriyannis, A. (1028) 31)

Tetrahydroleukotriene
Leukotriene B_4 metabolism; 6-*trans*-Leukotriene B_4; Dihydroleukotriene; Polymorphonuclear leukocyte; (Porcine) (Powell, W.S. (1044) 147)

3′,4′,5,7-Tetrahydroxyflavone
Flavonoid C-glycosidic linkage; Glycosidic linkage; Enzyme-catalyzed de-C-glycosylation; (*C. tinctorius*) (Saito, K. (1035) 340)

Tetramethylammonium
Microelectrode; Barium; Membrane potential; Cell volume; Nystatin; (Mouse liver) (Khalbuss, W.E. (1029) 51)

Tetrazolium reductase
Neutrophil; NADPH; (Human) (Nisimoto, Y. (1040) 260)

Thermal denaturation
D-Glyceraldehyde-3-phosphate dehydrogenase; Dissociation; Aggregation; Inactivation (Lin, Y.-Z. (1038) 247)

Thermal inactivation
Glucoamylase; Enzyme kinetics (Munch, O. (1041) 111)

Thermal stability
Creatine kinase; Dimethyl suberimidate; Crosslinking; (Bovine heart) (Sheehan, H. (1041) 141)

Thermal transition
Hexachlorocyclohexane; Phospholipid; Raman spectrum (Verma, S.P. (1027) 59)

Thermodynamic control
Oxidative phosphorylation; Kinetic control; Proton pump stoichiometry; ATPase/ATP synthase; Mitochondrion; (Yeast); (Rat liver); (Bovine heart) (Rigoulet, M. (1018) 185)

Thermodynamic efficiency
Calorimetry; Respirometry; Oxycaloric equivalent; Anaerobic metabolism; Metabolism; (Human cell culture) (Gnaiger, E. (1016) 328)

Thermodynamics
Proton transfer rate; Kinetics; Diffusion (Gutman, M. (1015) 391)

Retinal chromophore; Bacteriorhodopsin; Calorimetry (Maglova, L. (1017) 217)

Biothermokinetics; Energy conversion; Kinetics (Walz, D. (1019) 171)

Basic pancreatic trypsin inhibitor; Kunitz inhibitor; Proteinase : inhibitor complex formation; Kinetics; (Human plasmin); (Bovine trypsin inhibitor) (Ascenzi, P. (1040) 134)

Thermofusion of cells
Thermo-osmotic effect; Somatic cell hybridization; Plant protoplast (Antonov, P.A. (1051) 279)

Thermogenesis
Uncoupling protein synthesis; Brown adipose tissue; Mitochondrion; Neonatal (Houštěk, J. (1015) 441)

Brown adipose tissue; Differentiation; Mitochondrion; Biogenesis; Uncoupling protein (Houštěk, J. (1018) 243)

Thermogenic activity
Brown adipose tissue; Phospholipid composition; Fluidity; Mitochondrion; Essential fatty acid deficiency; Cold adaptation; Fluorescence polarization; Time resolved fluorescence anisotropy (Senault, C. (1023) 283)

Thermoluminescence
Oxygen evolution; ESR multiline; Photosystem II; Calcium ion depletion; S state (Ono, T.-A. (1015) 373)

Herbicide resistance; Photosystem II; Quinone acceptor; Chlorophyll fluorescence; Electron transfer (Etienne, A.-L. (1015) 435)

Photoinhibition; Photosystem II; Oxygen evolution; Charge recombination (Farineau, J. (1016) 357)

Thermo-osmotic effect
Thermofusion of cells; Somatic cell hybridization; Plant protoplast (Antonov, P.A. (1051) 279)

Thermophile
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Thiamin phosphate
Acid phosphatase; Thiamin binding; (*S. cerevisiae*) (Nosaka, K. (1037) 147)

Thiamin transport
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***p*-Thioanisole, *p*-substituted**
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Thioctic acid
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Thiocyanate binding
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Thioether linkage
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6-Thioguanosine 5′-phosphate
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Cadmium toxicity; Glutathione; Lipid peroxidation; Lipoic acid; Thioctic acid; (Rat hepatocytes) (Müller, L. (1052) 386)

Amino acid transport; Homocysteine uptake; Endothelial cell; Homocystinuria (Ewadh, M.J.A. (1054) 263)

Thiolase
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Thiol modification
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Mitochondrion; Aspartate/glutamate carrier; ADP/ATP carrier; Reconstitution; Membrane permeability (Dierks, T. (1028) 281)

Thiol modulation
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Thiol reagent
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Thiol redox
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Thiosemicarbazone
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Thiostrepton
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Thiouracil
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Threonine ethanolamine phosphodiester
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Threonine metabolism
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L-Threonine dehydrogenase; Sulfhydryl group; Disulfide bond; Metal-ion activation (Craig, P.A. (1037) 30)

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Thrombin
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Thromboxane B_2
Cytotoxicity; Bleb formation; Plasma membrane; Proteinase inhibitor; Prostaglandin; Cytoskeleton; (Rat hepatocyte) (Horton, A.A. (1022) 319)

Leukotriene B_4; 12-Hydroxyicosatetetraenoic acid; Tumor growth; (Rat alveolar macrophage) (Vincent, J.E. (1042) 255)

Thromboxane formation
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Thromboxane synthesis
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Protein phosphorylation; Photosynthetic electron transport; Emerson enhancement (Forti, G. (1020) 247)

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Thylakoid membrane
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Photosynthetic metabolism; Chloroplast; Light harvesting complex; Electron transfer; Protein phosphorylation; (*Z. mays*) (Horton, P. (1017) 160)

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Thylakoid membrane dynamics
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Thymidine kinase
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Thymidine phosphorylase
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Thymidylate synthase
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Thymidylate synthetase
Sex difference; Adrenergic blocking agent; Thymidine kinase; Liver regeneration; (Rat) (Tsukamoto, I. (1033) 287)

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Time resolved fluorescence anisotropy
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Thymidine phosphorylase; Immunoassay; (Human) (Yoshimura, A. (1034) 107)

Tissue inhibitor
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Tissue inhibitor of metalloproteinase
Chondrocyte dedifferentiation; Collagen synthesis; Collagenase; Interleukin 1; (Rabbit cell) (Lefebvre, V. (1051) 266)

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Tissue metabolism
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Tissue oxygenation
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Tissue-specific expression
Cytochrome *c* oxidase; Brown fat tissue; Subunit structure; Amino acid sequence; Immunoassay; (Rat) (Kadenbach, B. (1015) 368)

Prostatic acid phosphatase; Prostate specific transcript; Lysosomal acid phosphatase; (Human prostate); (Prostatic cancer cell) (Solin, T. (1048) 72)

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T (Jurkat) lymphoblast
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TLCK
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α-Tocopherol
α-Tocopheryl acetate; DSC; NMR, ^{31}P-; Hexagonal H_{II} phase; Phosphatidylethanolamine (Micol, V. (1022) 194)

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α-Tocopheryl acetate
α-Tocopherol; DSC; NMR, ^{31}P-; Hexagonal H_{II} phase; Phosphatidylethanolamine (Micol, V. (1022) 194)

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Topoisomerase I
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θ-Toxin
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Toxin hemagglutination
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Transcellular transport
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Transcobalamin II
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Transcriptional control
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Transcription regulation
Stable RNA operon; *Trans*-activation; FIS; EF-Tu; (*E. coli*) (Bosch, L. (1050) 293)

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α_2-Adrenergic receptor; Recombinant DNA expression; Rauwolscine; Forskolin; Azidoclonidine; Photolabeling; (C127 cell) (Bresnahan, M.R. (1052) 439)

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Transferrin
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Iron reduction kinetics; Thiol; Anion effect; (Human) (Baldwin, D.A. (1038) 1)

Receptor internalization; Myogenic cell; Local anesthetic; (Rat muscle cell) (Hagiwara, Y. (1051) 237)

Iron metabolism; (Rabbit reticulocyte) (Zak, O. (1052) 24)

Bathophenanthroline disulfonate; Iron reduction; Iron metabolism; Hepatocyte; Plasma membrane (Thorstensen, K. (1052) 29)

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Transferrin receptor
Transferrin binding protein; (Rat placenta, Plasma and red blood cells) (Nair, M.K. (1035) 306)

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Transglucosylation
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Transition element
Retinol; Endoplasmic reticulum; Golgi apparatus; Membrane traffic; Cell-free system (Nowack, D.D. (1051) 250)

Transition protein
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Translational control
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Translational operator
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Translational regulation
Threonyl-tRNA synthetase; tRNA-like structure (Moine, H. (1050) 343)

Translation initiation
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Translation; Mitochondrial ribosome
Initiation complex; Ribosome: (Bovine) (O'Brien, T.W. (1050) 174)

Translocase
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Translocation
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Elongation factor 2; Ribosome; ADP-ribosylation; Phosphorylation; Trypsinolysis (Lavergne, J.-P. (1048) 231)

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Transmembrane pH
Anthracycline; Daunorubicin; Transport kinetics; P-glycoprotein; Exocytosis; (Ehrlich ascites tumor) (Demant, E.J.F. (1055) 117)

Transmembrane pH gradient
Ionophore A23187; pH gradient; Phosphatidylcholine vesicle; Large unilamellar vesicle; Cation uptake (Veiro, J.A. (1025) 109)

Transmembrane signaling
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Transmembrane solute transport
Permease; Energy coupling; Evolution; Transport, active; Group translocation; Phosphotransferase system (Saier, Jr., M.H. (1018) 248)

Transmission electron microscopy
Bacteriorhodopsin; Papain; Planar membrane monolayer; Purple membrane; Membrane thickness; Electron microscopy; Scanning tunneling microscopy (Fisher, K.A. (1023) 325)

Transport
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Hydroxymethylpyrimidine; (*S. cerevisiae*) (Iwashima, A. (1022) 211)

Cyanobacterial toxin; Peptide toxin; Microcystin; Bile acid; (Mouse cell); (Human cell) (Eriksson, J.E. (1025) 60)

Vasopressin-arginine; Blood-brain barrier; Permeability; (Guinea-pig brain) (Zlokovic, B.V. (1025) 191)

Overshoot; Hydroxymethylpyrimidine; Thiamin transport; (*S. cerevisiae*) (Iwashima, A. (1028) 161)

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Transmembrane solute transport; Permease; Energy coupling; Evolution; Group translocation; Phosphotransferase system (Saier, Jr., M.H. (1018) 248)

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Transport energetics
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Transport inhibitor
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Transport kinetics
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Glucose transport; Glycosylation; (Human erythrocyte) (Feugeas, J.-P. (1030) 60)

Thyroid hormone; Triiodothyronine; Cell membrane; (Rat erythrocyte) (Osty, J. (1051) 46)

Anthracycline; Daunorubicin; P-glycoprotein; Transmembrane pH; Exocytosis; (Ehrlich ascites tumor) (Demant, E.J.F. (1055) 117)

Transport stoichiometry
ATPase, Na^+/K^+-; Ion transport; Sodium-only mode; Activation energy; Substrate concentration dependence (Apell, H.-J. (1023) 81)

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Transport system
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5-Methyltetrahydrofolate; Methotrexate; pH dependence; Hepatocyte; (Rat) (Horne, D.W. (1023) 47)

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NMR; Paramagnetic reagent; Water transport; Interpulse delay; (Erythrocyte membrane) (Chao, L.N. (1028) 245)

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Trehalase
Glycoprotein; Lysosomal enzyme; (*D. discoideum*) (Gupta, J. (1035) 243)

Trehalose; (*H. grisea*) (Santos Zimmermann, A.L. (1036) 41)

Trehalose
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Phase transition; Sucrose; Membrane permeability; Carboxyfluorescein; Dimyristoylphosphatidylcholine; Liposome (Fabrie, C.H.J.P. (1024) 380)

Trehalase; (*H. grisea*) (Santos Zimmermann, A.L. (1036) 41)

Triacylglycerol
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Diacylglycerol acyltransferase; Amino acid composition; Enzyme structure; (*G. max* L. Merr.) (Kwanyuen, P. (1039) 67)

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Hepatic lipase; HDL; Apolipoprotein A-I; (Rabbit) (Clay, M.A. (1044) 50)

Icosapentaenoic acid; CaCo-2 cell; VLDL (Murthy, S. (1045) 147)

Hepatic lipase; HDL; Phospholipid (Azéma, C. (1046) 73)

Triacylglycerol biosynthesis
Phosphatidate phosphatase; Intracellular translocation; Ambiquitous enzyme; (Safflower) (Ichihara, K. (1043) 227)

Triacylglycerol hydrolysis
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Triacylglycerol metabolism
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Triacylglycerol-rich lipoprotein
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Triacylglycerol turnover
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Tricarboxylate carrier
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3′,3,5′-Triiodo-L-thyronine
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Triiodothyronine
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Macrophage activation; Endocytosis; Pinocytosis; Plasma membrane; Fluorescent probe (Illinger, D. (1030) 82)

Trimethyllysine
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Trimethylphosphine
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Trimetrexate
Dihydrofolate reductase; NADPH; Antifolate binding; Trimethoprim (Gilli, R.M. (1040) 245)

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α-Casein; Fluorescence; Proteolytic digestion (Ostoa-Saloma, P. (1041) 146)

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Tryptophan fluorescence
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Tryptophan localization
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Tryptophan metabolism
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Thromboxane B_2; Leukotriene B_4; 12-Hydroxyicosatetetraenoic acid; (Rat alveolar macrophage) (Vincent, J.E. (1042) 255)

Tumor growth inhibition
Glycoprotein; Protein conformation; Cytotoxicity (Miwa, N. (1034) 309)

Tumor necrosis factor α
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Tumor promoter
Long chain fatty acid; Lipid metabolism; Peroxisome; Enzyme activity; (Rat liver) (Aarsaether, N. (1042) 86)

Staurosporine; Prostaglandin E_2; Arachidonic acid; Phorbol ester; Cycloheximide; (Rat peritoneal macrophage) (Watanabe, M. (1047) 141)

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Prostaglandin E_1 receptor; Glycosylation; Translocation; Glycoprotein; (Mastocytoma P-815 cells) (Yatsunami, K. (1051) 94)

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Two dimensional gel electrophoresis
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Two dimensional polyacrylamide gel electrophoresis
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Tyrosine
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Tyrosine hydroxylation
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Interleukin; Protein phosphorylation; T cell (Augustine, J.A. (1052) 313)

Epidermal growth factor; EGF receptor; Receptor activation; Metal ion; Holoreceptor (Koland, J.G. (1052) 489)

Insulin receptor; Ligand binding affinity; Kinase defective insulin receptor; Alpha–beta subunit interaction (Maegawa, H. (1053) 185)

Tyrosine phosphorylation
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Tyrosine radical
Photosystem II; EPR; Oxygen evolution; (Spinach chloroplast) (Isogai, Y. (1017) 204)

U

U18666A
Cholesterol; Cholesterol transport; LDL; Ketoconazole (Liscum, L. (1045) 40)

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Ubisemiquinone radical
ESR; Cytochrome bc_1; Iron-sulfur cluster; Redox state; (*Rh. sphaeroides*) (McCurley, J.P. (1020) 176)

UDPglucose–ceramide glucosyltransferase
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UDPglucuronosyltransferase
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Perfluorooctane sulfonamide; Sulfluramid; Oxidative phosphorylation (Schnellmann, R.G. (1016) 344)

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Uncoupling activity
Uncoupler; Oxidative phosphorylation; Structure–activity relationship, quantitative; Phenol, substituted (Miyoshi, H. (1016) 99)

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Urea
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Uremia
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Ureogenesis
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Uridine phosphorylase
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Urokinase receptor
Urokinase; (Human monocyte); (Human macrophage) (Nykjær, A. (1052) 399)

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UTP–glucose-1-phosphate uridylyltransferase
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Vanadium
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Vanadyl
Vanadium; Yeast; Ion transport; ESR; (*S. cerevisiae*) (Bode, H.-P. (1022) 163)

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Vascular smooth muscle metabolism
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Vasoactive intestinal polypeptide
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Vasopressin
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VDAC
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Very-long-chain saturated fatty acid
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Apocytochrome *c*; Circular dichroism; Micelle; Lipid–protein interaction (De Jongh, H.H.J. (1029) 105)

Vesicle aggregation
Brush-border membrane; Gentamicin; Aminoglycoside; *N*-Acetylneuraminic acid; Nephrotoxicity; (Rat kidney) (Aramaki, Y. (1023) 352)

Protein-liposome conjugate; Streptavidin; Biotin; Liposome preparation; Freeze-fracture (Loughrey, H.C. (1028) 73)

Vesicle fusion
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Vesicle reconstitution
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Sodium-proton exchanger; Phenylarsine oxide; Amiloride; Brush border; (Human placenta) (Kulanthaivel, P. (1024) 385)

Vicinal sulfhydryl
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Retinyl ester hydrolase; Tetrachlorobiphenyl; (Rat) (Mercier, M. (1047) 70)

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1,25-Dihydroxyvitamin D-3; 24,25-Dihydroxyvitamin D-3; Phospholipid; Chondrocyte; Arachidonic acid turnover; Matrix vesicle (Schwartz, Z. (1027) 278)

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